

## REPORT NUMBER 1

NCEL CORE DATA -SANTA BARBARA CHANNEL AREA

by

P. J. Valent and H. J. Lee

Reconnaissance Study for the Proposed  
California Undersea AqueductNaval Civil Engineering Laboratory  
Port Hueneme, California 93043

for

Bureau of Reclamation  
Denver, Colorado 80225

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10 December 1971

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### NCEL Core Data - Santa Barbara Channel Area

This report is the first of four to be completed by the Naval Civil Engineering Laboratory for the Bureau of Reclamation under Contract No. 14-06-D-7210. It contains core locations, corer specifics, and sediment sample index properties for all tested NCEL cores taken on the California Continental Shelf. A second report, containing NCEL seismic survey data and sediment thickness interpretations for the shelf, is being submitted at this time under separate cover. A third report will present NCEL insitu test results, laboratory shear strength and consolidation test results, and engineering interpretations of these results. Report Number 4 will be an interpretative study of sediment core data collected by the Bureau from other agencies and transmitted to NCEL. This report contains 112 core index property logs prefaced by an index table and a location map. Blanks or hyphens within the tables indicate that the raw data were not logged or that the required tests were not performed. Asterisks indicate that the raw data are on hand but have not been reduced.

Soil from some of these cores is in storage. Portions of five DOTIPOS cores have not been tested; they are stored in a room temperature moisture room in an upright position. (See BUREC NOS. 9, 11, 33, 93, and 95.) Remolded, partially dried material from several other recent cores is stored in plastic containers. (This material is from cores with NCEL number prefices SCNI, TH, PB, PP, PPD, PPV, and PT.) Should the Bureau desire to examine and/or test some of the undisturbed and remolded core sediment, indicate those cores and core sections of interest and NCEL will make those available, if possible. NCEL would appreciate receiving a copy of test results on these specimens.

In addition to the 112 cores described herein, 16 cores have been taken by DOTIPOS and are now being tested (each 9.5 feet long, 4 inches diameter, taken with a fixed piston). The data are not in an organized, presentable form at present, but will be available to the Bureau at a later date. The cores were taken off Pitas Point (same location as BUREC NOS. 86-96), at the new NCEL Seacon Site (same location as BUREC NOS. 32-34), and at the new NCEL 1200 foot site (on the 200 fathom contour, west of BUREC core locations 31-34 and south of Goleta Point). These cores have been subjected to all standard classification and physical property tests. Residual negative pore pressures have been measured aboard ship and in the laboratory; and a technique is being developed to estimate sample disturbance based on these measurements. Specimens are being consolidated isotropically and anisotropically (no lateral strain) and then sheared drained. The constant rate of strain technique is being used for the anisotropic consolidation. Some test observations will be forthcoming in the third report of this series.

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SAMPLER

| BUREC<br>NO. | NCEL<br>NO. | DATE<br>TAKEN | PENETRATION<br>(APPROX.)<br>Inches | RECOVERY<br>Inches | TYPE         | WEIGHT<br>Lbs. | FREE FALL<br>HEIGHT<br>Feet | INSIDE<br>DIAMETER<br>Inches | RETAINER    |
|--------------|-------------|---------------|------------------------------------|--------------------|--------------|----------------|-----------------------------|------------------------------|-------------|
| 1            | AT-6        | 6-65          |                                    |                    | EWING        | 400            |                             | 2.25                         |             |
| 2            | SC-1        | 2-65          |                                    |                    | EWING        | 400            |                             | 2.25                         |             |
| 3            | AT-5        | 6-65          |                                    |                    | EWING        | 400            |                             | 2.25                         |             |
| 4            | SCNI-10     | 5-69          | 6                                  | 1.5                | EWING        | 410            | 9                           | 2.25                         | FINGER      |
| 5            | SCNI-11     | 5-69          | 12                                 | 2                  | EWING        | 410            | 9                           | 2.25                         | FINGER      |
| 6            | SCNI-12     | 5-69          | 24                                 | 1                  | EWING        | 410            | 9                           | 2.25                         | FINGER      |
| 7            | PT-12       | 12-69         |                                    | 33                 | PRESLEN      | 20             |                             | 3                            |             |
| 8            | PT-8        | 12-69         |                                    | 30                 | PRESLEN      | 20             |                             | 3                            |             |
| 9            | TH-6        | 6-70          | 114                                | 60                 | DOTIPOS      | -              |                             | 4                            | PISTON      |
| 10           | TH-7        | 6-70          | 114                                | 114                | DOTIPOS      | -              |                             | 4                            | PISTON      |
| 11           | TH-8        | 6-70          | 114                                | 114                | DOTIPOS      | -              |                             | 4                            | PISTON      |
| 12           | PB-3        | 5-66          | 96                                 | 46.5               | EWING        | 400            | 5.5                         | 2.25                         | ORANGE PEEL |
| 13           | PB-4        | 5-66          | 96                                 | 50                 | EWING        | 400            | 5.5                         | 2.25                         | ORANGE PEEL |
| 14           | PB-5        | 5-66          | 96                                 | 47                 | EWING        | 400            | 5.5                         | 2.25                         | ORANGE PEEL |
| 15           | TH-1        |               |                                    |                    | HYDROPLASTIC |                |                             | 3                            | FLAP VALVE  |
| 16           | TH-3        |               |                                    |                    | HYDROPLASTIC |                |                             | 3                            | FLAP VALVE  |
| 17           | TH-5        |               |                                    |                    | HYDROPLASTIC |                |                             | 3                            | FLAP VALVE  |
| 18           | TH-4        |               |                                    |                    | HYDROPLASTIC |                |                             | 3                            | FLAP VALVE  |
| 19           | TH-2        |               |                                    |                    | HYDROPLASTIC |                |                             | 3                            | FLAP VALVE  |
| 20           | SCNI-34     | 6-69          |                                    |                    | EWING        | 410            | 6                           | 2.25                         | FINGER      |
| 21           | SCNI-35     | 6-69          |                                    |                    | EWING        | 410            | 6                           | 2.25                         | FINGER      |
| 22           | SCNI-36     | 6-69          |                                    |                    | EWING        | 410            | 6                           | 2.25                         | FINGER      |
| 23           | SCNI-37     | 6-69          |                                    |                    | EWING        | 410            | 6                           | 2.25                         | FINGER      |
| 24           | SCNI-39     | 6-69          |                                    |                    | EWING        | 410            | 6                           | 2.25                         | FINGER      |
| 25           | SCNI-40     | 6-69          |                                    |                    | EWING        | 410            | 6                           | 2.25                         | FINGER      |
| 26           | SCNI-41     | 6-69          |                                    |                    | EWING        | 410            | 6                           | 2.25                         | FINGER      |
| 27           | SCNI-42     | 6-69          |                                    |                    | EWING        | 410            | 6                           | 2.25                         | FINGER      |
| 28           | SCNI-46     | 6-69          |                                    |                    | HYDROPLASTIC |                |                             | 3                            |             |
| 29           | SCNI-48     | 6-69          |                                    |                    | HYDROPLASTIC |                |                             | 3                            |             |
| 30           | SCNI-49     | 6-69          |                                    |                    | HYDROPLASTIC |                |                             | 3                            |             |
| 31           | SCNI-1      | 12-68         |                                    |                    | EWING        | 36             |                             | 2.25                         | PLASTIC     |
| 32           | SCNI-56     | 4-70          | 108                                | 96                 | DOTIPOS      |                |                             | 4                            | PISTON      |
| 33           | SCNI-57     | 4-70          | 108                                | 72                 | DOTIPOS      |                |                             | 4                            | PISTON      |
| 34           | SCNI-55     |               |                                    |                    |              |                | 9                           |                              |             |

## SAMPLER

| BUREC<br>NO. | NCEL<br>NO. | DATE<br>TAKEN | PENETRATION<br>(APPROX.)<br>Inches | RECOVERY<br>Inches | TYPE  | WEIGHT<br>Lbs. | FREE FALL      |                    | INSIDE<br>DIAMETER<br>Inches | RETAINER |
|--------------|-------------|---------------|------------------------------------|--------------------|-------|----------------|----------------|--------------------|------------------------------|----------|
|              |             |               |                                    |                    |       |                | HEIGHT<br>Feet | DIAMETER<br>Inches |                              |          |
| 35           | SCNI-8      | 5-69          | 30                                 | 29                 | EWING | 410            | 9              | 2.25               | FINGER                       |          |
| 36           | SCNI-9      | 5-69          | 36                                 | 15                 | EWING | 410            | 9              | 2.25               | FINGER                       |          |
| 37           | SCNI-32     | 5-69          | 80                                 | 37                 | EWING | 410            | 6              | 2.25               | FINGER                       |          |
| 38           | SCNI-33     | 5-69          | 84                                 | 38                 | EWING | 410            | 6              | 2.25               | FINGER                       |          |
| 39           | SCNI-30     | 5-69          | 52                                 | 21                 | EWING | 410            | 9              | 2.25               | FINGER                       |          |
| 40           | SCNI-31     | 5-69          | 78                                 | 30                 | EWING | 410            | 9              | 2.25               | FINGER                       |          |
| 41           | SCNI-14     | 5-69          | 9                                  | 0                  | EWING | 410            | 9              | 2.25               | FINGER                       |          |
| 42           | SCNI-2      | 12-68         |                                    | 21                 | EWING | 300            | 9              | 2.25               | PLASTIC                      |          |
| 43           | SCNI-6      | 5-69          | 12                                 | 10                 | EWING | 410            | 9              | 2.25               | FINGER                       |          |
| 44           | SCNI-7      | 5-69          | 24                                 | 18                 | EWING | 410            | 9              | 2.25               | FINGER                       |          |
| 45           | SC-3        | 2-65          |                                    | 69                 | EWING | 400            |                | 2.25               |                              |          |
| 46           | SC-4        | 2-65          |                                    | 51                 | EWING | 400            |                | 2.25               |                              |          |
| 47           | SC-5        | 2-65          |                                    | 25                 | EWING | 400            |                | 2.25               |                              |          |
| 48           | SC-6        | 2-65          | 26.5                               | EWING              | 400   |                |                | 2.25               |                              |          |
| 49           | SC-7        | 2-65          |                                    | EWING              | 400   |                |                | 2.25               |                              |          |
| 50           | SC-8        | 2-65          |                                    | EWING              | 400   |                |                | 2.25               |                              |          |
| 51           | SC-9        | 2-65          |                                    | EWING              | 400   |                |                | 2.25               |                              |          |
| 52           | SC-10       | 2-65          |                                    | EWING              | 400   |                |                | 2.25               |                              |          |
| 53           | SC-11       | 2-65          |                                    | EWING              | 400   |                |                | 2.25               |                              |          |
| 54           | SC-12       | 2-65          |                                    | EWING              | 400   |                |                | 2.25               |                              |          |
| 55           | SC-13       | 2-65          |                                    | EWING              | 400   |                |                | 2.25               |                              |          |
| 56           | SC-14       | 2-65          |                                    | EWING              | 400   |                |                | 2.25               |                              |          |
| 57           | SC-16       | 2-65          |                                    | EWING              | 400   |                |                | 2.25               |                              |          |
| 58           | SC-17       | 2-65          | 73.5                               | EWING              | 400   |                |                | 2.25               |                              |          |
| 59           | SC-18       | 2-65          |                                    | EWING              | 400   |                |                | 2.25               |                              |          |
| 60           | SC-19       | 2-65          |                                    | EWING              | 400   |                |                | 2.25               |                              |          |
| 61           | SC-20       | 2-65          |                                    | EWING              | 400   |                |                | 2.25               |                              |          |
| 62           | SC-21       | 2-65          | 20                                 | EWING              | 400   |                |                | 2.25               |                              |          |
| 63           | SC-22       | 2-65          | 13.5                               | EWING              | 400   |                |                | 2.25               |                              |          |
| 64           | SC-23       | 2-65          | 35                                 | EWING              | 400   |                |                | 2.25               |                              |          |
| 65           | SC-24       | 2-65          | 24                                 | EWING              | 400   |                |                | 2.25               |                              |          |
| 66           | SC-25       | 2-65          | 20                                 | EWING              | 400   |                |                | 2.25               |                              |          |
| 67           | SC-26       | 2-65          | 68                                 | EWING              | 400   |                |                | 2.25               |                              |          |
| 68           | SC-27       | 2-65          | 8                                  | EWING              | 400   |                |                | 2.25               |                              |          |
| 69           | SC-28       | 2-65          | 34                                 | EWING              | 400   |                |                | 2.25               |                              |          |
| 70           | SC-29       | 2-65          |                                    | EWING              | 400   |                |                | 2.25               |                              |          |

## SAMPLER

| BUREC<br>NO. | NCEL<br>NO. | DATE<br>TAKEN | PENETRATION<br>(APPROX.)<br>Inches | RECOVERY<br>Inches | TYPE | WEIGHT<br>Lbs. | FREE FALL<br>HEIGHT<br>Feet | INSIDE<br>DIAMETER<br>Inches | RETAINER |
|--------------|-------------|---------------|------------------------------------|--------------------|------|----------------|-----------------------------|------------------------------|----------|
| 71           | SC-30       | 2-65          | 28                                 | EWING              | 4.00 |                |                             | 2.25                         |          |
| 72           | SG-31       | 2-65          | 30                                 | EWING              | 4.00 |                |                             | 2.25                         |          |
| 73           | SC-32       | 2-65          | 35                                 | EWING              | 4.00 |                |                             | 2.25                         |          |
| 74           | SC-33       | 2-65          | 17                                 | EWING              | 4.00 |                |                             | 2.25                         |          |
| 75           | SC-34       | 2-65          | 22                                 | EWING              | 4.00 |                |                             | 2.25                         |          |
| 76           | SC-36       | 2-65          | 19                                 | EWING              | 4.00 |                |                             | 2.25                         |          |
| 77           | SC-37       | 2-65          | 21                                 | EWING              | 4.00 |                |                             | 2.25                         |          |
| 78           | SC-38       | 2-65          | 21                                 | EWING              | 4.00 |                |                             | 2.25                         |          |
| 79           | SC-39       | 2-65          | 20.5                               | EWING              | 4.00 |                |                             | 2.25                         |          |
| 80           | SC-2        | 2-65          | 38                                 | EWING              | 4.00 |                |                             | 2.25                         |          |
| 81           | SCNI-15     | 48            | 15.5                               | EWING              | 4.10 | 9              | 2.25                        |                              |          |
| 82           | SCNI-16     | 5-69          | 10                                 | EWING              | 4.10 | 9              | 2.25                        |                              |          |
| 83           | SCNI-17     | 5-69          | 8                                  | EWING              | 4.10 | 9              | 2.25                        |                              |          |
| 84           | SCNI-27     | 5-69          | 10                                 | EWING              | 4.10 | 9              | 2.25                        |                              |          |
| 85           | SCNI-29     | 5-69          | 18                                 | EWING              | 4.10 | 9              | 2.25                        |                              |          |
| 86           | AT-13       | 6-65          |                                    | EWING              | 4.00 |                |                             | 2.25                         |          |
| 87           | PB-1        | 3-66          | 45                                 | EWING              | 4.00 | 5.5            | 2.25                        |                              |          |
| 88           | PB-2        | 3-66          | 48                                 | EWING              | 4.00 | 5.5            | 2.25                        |                              |          |
| 89           | PT-7        | 12-69         | 36                                 | PRESLEN            | 20   |                |                             | 3                            |          |
| 90           | PT-6        | 12-69         | 18                                 | PRESLEN            | 20   |                |                             | 3                            |          |
| 91           | PT-2        | 12-69         | 30                                 | PRESLEN            | 20   |                |                             | 3                            |          |
| 92           | PT-1        | 12-69         | 36                                 | PRESLEN            | 20   |                |                             | 3                            |          |
| 93           | PPD-2       | 3-70          | 120                                | DOTIPOS            | -    | -              | 4                           |                              |          |
| 94           | PPD-1       | 3-70          | 120                                | DOTIPOS            | -    | -              | 4                           |                              |          |
| 95           | PPD-3       | 3-70          | 120                                | DOTIPOS            | -    | -              | 4                           |                              |          |
| 96           | PP-1        |               |                                    | HYDROPLASTIC       |      |                | 3                           |                              |          |
| 97           | PPV-1       | 3-70          | 115                                | VIBROCORER         | -    |                |                             | 2.25                         |          |
| 98           | S5-2        |               |                                    | EWING              | 4.00 |                |                             | 2.25                         |          |
| 99           | AT-14       |               |                                    | SCOOP              |      |                |                             |                              |          |
| 100          | STS-2       | 11-65         |                                    | GRAB               | -    |                |                             |                              |          |
| 101          | SCNI-3      | 12-68         |                                    | EWING              | 4.00 |                | 2.25                        |                              |          |
| 102          | S5-1        | 6-65          |                                    | EWING              | 4.00 |                | 2.25                        |                              |          |
| 103          | H10-1       |               |                                    |                    |      |                |                             |                              |          |
| 104          | AT-16       |               |                                    |                    |      |                |                             |                              |          |

## SAMPLER

| BUREC<br>NO. | NCEL<br>NO. | DATE<br>TAKEN | PENETRATION<br>(APPROX.) |      | RECOVERY<br>Inches | TYPE  | WEIGHT<br>Lbs | FREE FALL<br>HEIGHT<br>Feet | INSIDE<br>DIAMETER<br>Inches | RETAINER |
|--------------|-------------|---------------|--------------------------|------|--------------------|-------|---------------|-----------------------------|------------------------------|----------|
|              |             |               | INCHES                   | FEET |                    |       |               |                             |                              |          |
| 105          | FI-1        | 6-65          |                          |      |                    | EWING | 400           |                             |                              | 2.25     |
| 106          | STS-5       | 11-65         |                          |      |                    | SCOOP |               |                             |                              |          |
| 107          | STS-1       | 11-65         |                          |      |                    | SCOOP |               |                             |                              |          |
| 108          | STS-3       | 11-65         |                          |      |                    | SCOOP |               |                             |                              |          |
| 109          | STS-4       | 11-65         |                          |      |                    | SCOOP |               |                             |                              |          |
| 110          | SCNI-19     | 5-69          | 72                       |      | 16                 | EWING | 410           | 9                           | 2.25                         | FINGER   |
| 111          | SCNI-4      | 12-68         |                          |      | 5                  | EWING | 300           | 9                           | 2.25                         | PLASTIC  |
| 112          | SCNI-5      | 12-68         |                          |      | 26                 | EWING | 300           | 9                           | 2.25                         | PLASTIC  |

BUREG NO. 1

\*\*\*\*\* CORE NO AT - 6 \*\*\*\*\*

LATITUDE 34° 7.7' N LONGITUDE 120° 7.5' W WATER DEPTH 1290. M  
INTERVAL (IN) .03 12.15 24.27

|                             |       |       |       |
|-----------------------------|-------|-------|-------|
| BULK WET DENSITY (GM/CC)    | 1.313 | 1.462 | 1.474 |
| VANE SHEAR STRENGTH (PSI)   | .081  | .362  | .499  |
| VANE SHEAR STRENGTH (GM/SC) | 5.7   | 25.4  | 35.1  |
| REMOLDED STRENGTH (PSI)     | .024  | .125  | .304  |
| REMOLDED STRENGTH (GM/SC)   | 1.7   | 8.8   | 21.4  |
| SENSITIVITY                 | 3.3   | 2.9   | 1.6   |
| ORIGINAL WATER CONTENT %    | 172.4 | 111.1 | 101.3 |
| SPECIFIC GRAVITY OF SOLIDS  | 2.266 | 2.458 | 2.485 |
| VOID RATIO                  | 3.702 | 2.548 | 2.393 |
| LIQUID LIMIT %              | 105.2 | 90.9  | 93.8  |
| PLASTIC LIMIT %             | 45.7  | 42.9  | 42.5  |
| PLASTICITY INDEX            | 59.6  | 48.0  | 51.3  |
| LIQUIDITY INDEX             | 213.  | 142.  | 115.  |
| ACTIVITY                    | 1.6   | 1.5   | 1.5   |
| MEDIAN DIAMETER (MM)        | .0047 | .0068 | .0056 |

BUREC NO. 2

\*\*\*\*\* CORE NO. SC-1

| LATITUDE / 34°                            | LONGITUDE / 120° | WATER DEPTH / 309 FM | 1854'  |
|---|------------------|----------------------|--------|
| INTERVAL (IN)                             | 0-3              | 48-51                | 72-75  |
|   | 12-15            | 60-63                | 84-87  |
|   | 36-39            |                      | 96-95' |
| COLOR (GSA NO.)                           | 5Y3/2            | 5Y3/2                | 10Y4/2 |
| BULK RET DENSITY (gm/cc)                  | -                | 1.185                | 1.263  |
| VANE SHEAR STRENGTH (gm/cm <sup>2</sup> ) | -                | 6.47                 | 1.239  |
| REMOLDED STRENGTH (gm/cm <sup>2</sup> )   | -                | 2.60                 | 1.264  |
| SENSITIVITY                               | -                | 2.5                  | 15.7   |
| ORIGINAL WATER CONTENT (%)                | 242.5            | 265.6                | 228.1  |
| SPECIFIC GRAVITY OF SOLIDS                | 2.627            | 2.640                | 2.634  |
| VOID RATIO                                | -                | 7.130                | 5.944  |
| LIQUID LIMIT                              | 132.6            | 133.2                | 137.3  |
| PLASTIC LIMIT                             | 52.2             | 58.1                 | 60.9   |
| PLASTICITY INDEX                          |                  | 54.3                 | 57.8   |
| LIQUIDITY INDEX                           |                  |                      |        |
| SAND (%)                                  | 5.4              | 4.3                  | 2.3    |
| SILT (%)                                  | 58.8             | 56.9                 | 46.1   |
| CLAY (%)                                  | 35.8             | 38.8                 | 49.6   |
| ACTIVITY                                  |                  | 0.0094               | 0.0078 |
| MEDIAN DIAMETER (MM)                      |                  | 0.0052               | 0.0024 |
|   |                  |                      | 0.0028 |
|   |                  |                      | 0.0027 |
|   |                  |                      | 0.0028 |

KEY: - LAB TEST NOT CONDUCTED

\* LAB TEST CONDUCTED, DATA NOT REDUCED

BUREC NO. 3

\*\*\*\*\* CORE NO. AT - 5 \*\*\*\*\*

LATITUDE 3412.0 N LONGITUDE 12003.0 W WATER DEPTH 580. M  
INTERVAL (IN) .03 12.15 24.27 36.39 48.51

|                             |       |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|-------|
| BULK WEI DENSITY (GM/CC)    | 1.186 | 1.271 | 1.300 | 1.331 | 1.345 |
| VANE SHEAR STRENGTH (PSI)   | .027  | .212  | .330  | .518  | .410  |
| VANE SHEAR STRENGTH (GM/SC) | 1.9   | 14.9  | 23.2  | 36.4  | 28.8  |
| REMOLDED STRENGTH (PSI)     | .066  | .095  | .148  | .145  |       |
| REMOLDED STRENGTH (GM/SC)   | 4.7   | 6.7   | 10.4  | 10.2  |       |
| SENSITIVITY                 | 3.2   | 3.5   | 3.5   | 2.8   |       |
| ORIGINAL WATER CONTENT %    | 321.1 | 203.0 | 174.4 | 157.4 | 129.2 |
| SPECIFIC GRAVITY OF SOLIDS  | 2.353 | 2.407 | 2.389 | 2.410 | 2.460 |
| VOID RATIO                  | 7.352 | 4.738 | 4.043 | 3.659 | 3.192 |
| LIQUID LIMIT %              | 126.1 | 131.7 | 136.4 | 128.2 | 113.4 |
| PLASTIC LIMIT %             | 54.1  | 58.2  | 59.3  | 55.1  | 49.1  |
| PLASTICITY INDEX            | 72.0  | 73.5  | 77.2  | 73.1  | 64.3  |
| Liquidity Index             | 371.  | 197.  | 149.  | 140.  | 125.  |
| ACTIVITY                    | 2.7   | 2.0   | 1.7   | 1.6   | 1.4   |
| MEDIAN DIAMETER (MM)        | .0068 | .0042 | .0026 | .0024 | .0023 |

91.4 - 121.9 - 121.5  
0-7.6 30.5 61.0 91.1 - 68.14  
- 38.1 - 68.1 - 121.5121.5  
80  
100  
120

09005058

BUREC NO. 4 \* \*\*\*\*\* CORE NO. SCN1-10 \*\*\*\*\*

| INTERVAL (IN)              | 0- 3  | CORE NO. SCN1-10 |
|----------------------------|-------|------------------|
| CARBONATE CARBON CONTENT-% | 3.89  |                  |
| ORGANIC CARBON CONTENT %   | .73   |                  |
| SAND %                     | 54.9  |                  |
| SILT %                     | 29.1  |                  |
| CLAY %                     | 16.0  |                  |
| ACTIVITY                   | 0     |                  |
| MEDIAN DIAMETER (MM)       | .0540 |                  |

1) \*\*\*\*\* CORE NO. SCNI - IT \*\*\*\*\*

|                            |       |
|----------------------------|-------|
| BUREC NO.                  | 5     |
| INTERVAL (IN)              | 0- 3  |
| CARBONATE-CARBON CONTENT % | 3.37  |
| ORGANIC CARBON CONTENT %   | .81   |
| SAND %                     | 62.0  |
| SIL %                      | 25.6  |
| CLAY %                     | 12.4  |
| ACTIVITY                   | .0    |
| MEDIAN DIAMETER (MM)       | .0600 |

BUREC NO. 6 \*\*\*\* CORE NO. SCNI - 12 \*\*\*\*

LATITUDE 34° 7.24' N LONGITUDE 119° 46.98' W WATER DEPTH 109.0 FM

INTERVAL (IN) 0- 3 3- 6 6- 9

|                            |        |         |          |
|----------------------------|--------|---------|----------|
| COLOR (GSA NO.)            | 10Y4/2 | 10Y4/2  | 10Y4/2   |
| BULK WET DENSITY (PCF)     | 114.   | 115.    | 112.     |
| VAN'S SHEAR STRENGTH (PSF) | 69.    | 81.     | 155.     |
| REMOLDED STRENGTH (PSF)    | 25.    | 35.     | 42.      |
| SENSITIVITY                | 2.8    | 2.3     | 3.6      |
| ORIGINAL WATER CONTENT-%   | 40.4   | 43.3    | 43.0     |
| SPECIFIC GRAVITY OF SOLIDS | 2.64   | 2.62    | 2.65     |
| VOID RATIO                 | 1.03   | 1.05    | 1.11     |
| LIQUID LIMIT %             | 34.    |         |          |
| PLASTIC LIMIT %            |        |         |          |
| PLASTICITY INDEX           |        |         |          |
| LIQUIDITY INDEX            |        |         |          |
| CARBONATE CARBON CONTENT % | 1.94   | 2.44    | 4.45     |
| ORGANIC CARBON CONTENT %   | •73    | •90     | •76      |
| SAND %                     | 70.0   | 67.0    | 66.0     |
| SILT %                     | 18.6   | 19.8    | 19.6     |
| CLAY %                     | 11.4   | 13.2    | 14.4     |
| ACTIVITY                   | •0     | •0      | •0       |
| MEDIAN DIAMETER (MM)       | •0700  | •0690   | •0700    |
|                            | Ø-716  | 716-152 | 152-22.9 |

14

BUREC NO. 7, P. 1 \*\*\*\*\* CORE NO PT - 12 \*\*\*\*\*

LATITUDE - 34° 9.57' N      LONGITUDE - 119° 45.39' W      WATER DEPTH - 200. FM  
INTERVAL (IN)      0 - 3      3 - 6      6 - 9      9 - 12      12 - 15

|                            |        |        |        |        |        |
|----------------------------|--------|--------|--------|--------|--------|
| COLOR (GSA NO.)            | 10Y4/2 | 10Y4/2 | 10Y4/2 | 10Y4/2 | 10Y4/2 |
| BULK WET DENSITY (PCF)     | 78.    | 82.    | 85.    | 86.    | 85.    |
| VANE SHEAR STRENGTH (PSF)  | 13.    | 13.    | 42.    | 31.    | 43.    |
| REMOLDED STRENGTH (PSF)    | .      | .      | 13.    | 17.    | 15.    |
| SENSITIVITY                |        |        | 3.1    | 1.8    | 2.8    |
| ORIGINAL WATER CONTENT %   | 188.2  | 159.1  | 139.4  | 136.0  | 133.3  |
| SPECIFIC GRAVITY OF SOLIDS | 2.50   | 2.50   | 2.50   | 2.50   | 2.55   |
| VOID RATIO                 | 4.80   | 3.92   | 3.42   | 3.30   | 3.36   |
| LIQUID LIMIT %             | 113.   | .      | 107.   | .      | 103.   |
| PLASTIC LIMIT %            | 49.    | .      | 47.    | .      | 48.    |
| PLASTICITY INDEX           | 64.    | .      | 60.    | .      | 55.    |
| LIQUIDITY INDEX            | 216.   | .      | 155.   | .      | 154.   |
| SAND %                     | 6.0    |        |        |        |        |
| SILI %                     |        | 47.8   | 22.4   | 30.5   |        |
| CLAY %                     |        | 22.0   | 2.0    | 38.1   |        |
| ACTIVITY                   |        | 46.2   | 2.0    | 38.1   |        |
| MEDIAN DIAMETER (MM)       |        | 2.0    | 2.0    | 2.0    |        |
|                            |        | .0060  |        |        |        |

BUREC NO. 7, p. 2      \* \* \* \* \* CORE NO PT = 12 \* \* \* \* \*

LATITUDE 34° 9.57' N      LONGITUDE 119° 45.39' W      WATER DEPTH 200. FM  
INTERVAL (IN)      15-18      18-21      21-24      24-27      27-30      30-33

| COLOR (GSA NO.)            | 10Y4/2 | 10Y4/2 | 10Y4/2 | 10Y4/2 | 10Y4/2 | 10Y4/2 |
|----------------------------|--------|--------|--------|--------|--------|--------|
| BULK WET DENSITY (PCF)     | 86.    | 87.    | 88.    | 89.    | 90.    | 90.    |
| VANE SHEAR STRENGTH (PSF)  | 42.    | 71.    | 62.    | 69.    | 65.    | 92.    |
| REMOLDED STRENGTH (PSF)    | 12.    | 25.    | 27.    | 28.    | 26.    | 45.    |
| SENSITIVITY                | 3.5    | 2.8    | 2.3    | 2.4    | 2.5    | 2.0    |
| ORIGINAL WATER CONTENT %   | 136.3  | 125.1  | 114.3  | 113.7  | 111.0  | 108.0  |
| SPECIFIC GRAVITY OF SOLIDS | 2.55   | 2.55   | 2.55   | 2.55   | 2.55   | 2.55   |
| VOID RATIO                 | 3.39   | 3.13   | 2.87   | 2.82   | 2.74   | 2.66   |
| LIQUID LIMIT %             | .      | 108.   | .      | 89.    | 93.    |        |
| PLASTIC LIMIT %            | .      | 50.    | .      | 44.    | 47.    |        |
| PLASTICITY INDEX           | .      | 58.    | .      | 45.    | 46.    |        |
| LIQUIDITY INDEX            | .      | 128.   | .      | 155.   | 1.33   |        |
| SAND %                     | 3.0    | 3.0    | 3.0    | 3.8    | 3.8    |        |
| SILT %                     | 49.6   | 49.6   | 49.6   | 51.1   | 51.1   |        |
| CLAY %                     | 47.4   | 47.4   | 47.4   | 45.1   | 45.1   |        |
| ACTIVITY                   | 1.7    | 1.7    | 1.7    | 1.5    | 1.5    |        |
| MEDIAN DIAMETER (MM)       | .0058  | .0064  | .0064  |        |        |        |

471 3.31 -60  
-61.0

LATITUDE 34° 9.90' N      LONGITUDE 119° 45.65' W      WATER DEPTH 200. FM  
 INTERVAL (IN)      0- 3      3- 6      6- 9      9-12

|                            |        |        |        |        |
|----------------------------|--------|--------|--------|--------|
| COLOR (GSA NO.)            | 10Y4/2 | 10Y4/2 | 10Y4/2 | 10Y4/2 |
| BULK WET DENSITY (PCF)     | 78.    | 83.    | 84.    | 85.    |
| VANE SHEAR STRENGTH (PSF)  | 10.    | 17.    | 30.    | 26.    |
| REMOLDED STRENGTH (PSF)    |        |        | 11.    | 11.    |
| SENSITIVITY                |        | 2.3    | 2.8    | 2.3    |
| ORIGINAL WATER CONTENT %   | T90.7  | 156.9  | 135.7  | 135.3  |
| SPECIFIC GRAVITY OF SOLIDS | 2.53   | 2.53   | 2.53   | 2.53   |
| VOID RATIO                 | 4.92   | 3.89   | 3.42   | 3.35   |
| LIQUID LIMIT %             | 109.   | 109.   | 109.   | 109.   |
| PLASTIC LIMIT %            |        | 47.    | 44.    | 44.    |
| PLASTICITY INDEX           |        | 62.    | 56.    | 56.    |
| LIMITATION INDEX           | 230.   |        | 163.   |        |
| SAND %                     |        |        | 3.4    |        |
| SILT %                     |        |        | 51.7   |        |
| CLAY %                     |        |        | 44.9   |        |
| ACTIVITY                   |        |        | 1.8    |        |
| MEDIAN DIAMETER (MM)       |        |        | .0068  |        |

| LATITUDE                   | 34° 9.90' N | LONGITUDE | 119° 45.65' W | WATER DEPTH | 200. FM |        |        |
|----------------------------|-------------|-----------|---------------|-------------|---------|--------|--------|
| INTERVAL                   | (IN)        | 12-15     | 15-18         | 18-21       | 21-24   | 24-27  | 27-30  |
| COLOR (GSA NO.)            | 10Y4/2      | 10Y4/2    | 10Y4/2        | 10Y4/2      | 10Y4/2  | 10Y4/2 | 10Y4/2 |
| BULK WET DENSITY (PCF)     | 87.         | 87.       | 88.           | 88.         | 88.     | 88.    | 88.    |
| VANE SHEAR STRENGTH (PSF)  | 45.         | 54.       | 58.           | 41.         | 74.     | 53.    |        |
| REMOLDED STRENGTH (PSF)    | 24.         | 19.       | 27.           | 19.         | 28.     | 22.    |        |
| SENSITIVITY                | 1.8         | 2.8       | 2.2           | 2.2         | 2.7     | 2.4    |        |
| ORIGINAL WATER CONTENT %   | 124.7       | 127.8     | 120.2         | 119.3       | 120.7   | 120.0  |        |
| SPECIFIC GRAVITY OF SOLIDS | 2.53        | 2.53      | 2.53          | 2.53        | 2.53    | 2.53   | 2.53   |
| VOID RATIO                 | 3.08        | 3.13      | 2.94          | 2.93        | 2.93    | 2.93   | 2.96   |
| LIQUID LIMIT %             | 96.         | 101.      | 95.           |             |         |        |        |
| PLASTIC LIMIT %            | 45.         | 47.       | 48.           |             |         |        |        |
| PLASTICITY INDEX           | 51.         | 54.       | 47.           |             |         |        |        |
| LIQUIDITY INDEX            | 156.        | 136.      |               |             |         |        |        |
| SAND %                     |             |           | 1.0           |             |         |        |        |
| SILT %                     |             |           | 52.9          |             |         |        |        |
| CLAY %                     |             |           | 46.1          |             |         |        |        |
| ACTIVITY                   |             |           | 1.7           |             |         |        |        |
| MEDIAN DIAMETER (MM)       |             |           | .0069         |             |         |        |        |

BUREC NO. 9

\*\*\*\*\* CORE NO. TH-6

LATITUDE  $34^{\circ} 09.60'$

LONGITUDE  $119^{\circ} 45.50'$

REMARKS: CORE NOT TESTED, IN STORAGE IN MOISTURE ROOM AT ROOM TEMPERATURE, CORE OBTAINED  
18 JUNE 1970

WATER DEPTH 1100 ft

1 BUREC NO. 10

\*\*\*\*\* CORE NO. TH - 7 \*\*\*\*\*

| LATITUDE                   | 9.40 N | LONGITUDE | 119 45.45 W | WATER DEPTH | 200 FM               |
|----------------------------|--------|-----------|-------------|-------------|----------------------|
| INTERVAL (IN)              | 0-     | 3         | 12- 15      | 24- 27      | 36- 39 48- 51 60- 63 |
| BULK WET DENSITY (PCF)     | 87     | 92        | 91          | 94          | 93 94                |
| VANE SHEAR STRENGTH (PSF)  | 54     | 44        | 27          | 101         | 97 181               |
| REMOLDED STRENGTH (PSF)    | 22     | 16        | 15          | 25          | 45 64                |
| SENSITIVITY                | 2.5    | 2.9       | 1.9         | 4.2         | 2.2 2.9              |
| ORIGINAL WATER CONTENT %   | 112.6  | 108.5     | 100.7       | 93.2        | 91.1 92.5            |
| SPECIFIC GRAVITY OF SOLIDS | 2.49   | 2.52      | 2.55        | 2.54        | 2.54 2.53            |
| VOID RATIO                 | 2.81   | 2.58      | 2.50        | 2.26        | 2.26 2.24            |
| LIQUID LIMIT %             | 98     | 88        | 80          | 86          | 88 87                |
| PLASTIC LIMIT %            | 45     | 44        | 42          | 45          | 46 45                |
| PLASTICITY INDEX           | 52     | 44        | 38          | 42          | 42 43                |
| LIQUIDITY INDEX            | 1.30   | 1.47      | 1.56        | 1.19        | 1.10 1.14            |

\*\*\*\*\* CORE NO. TH - 7 \*\*\*\*\*

INTERVAL (IN)

|                            | 72- 75 | 84- 87 | 96- 99 | 106-109 |
|----------------------------|--------|--------|--------|---------|
| BULK WET DENSITY (PCF)     | 96     | 96     | 98     | 94      |
| VANE SHEAR STRENGTH (PSF)  | 142    | 71     | 328    | 222     |
| REMOLDED STRENGTH (PSF)    | 65     | 70     | 71     | 91      |
| SENSITIVITY                | 2.2    | 1.1    | 4.7    | 2.5     |
| ORIGINAL WATER CONTENT %   | 84.0   | 83.3   | 74.8   | 79.1    |
| SPECIFIC GRAVITY OF SOLIDS | 2.55   | 2.52   | 2.54   | 2.54    |
| VOID RATIO                 | 2.04   | 2.00   | 1.83   | 2.02    |
| LIQUID LIMIT %             | 83     | 84     | 78     | 80      |
| PLASTIC LIMIT %            | 43     | 43     | 49     | 50      |
| PLASTICITY INDEX           | 39     | 40     | 29     | 30      |
| LIQUIDITY INDEX            | 1.05   | 1.00   | .92    | .99     |

BUREC NO. 11                          \* \* \* \* \* CORE NO. TH-8

LATITUDE 34° 09.4'                          LONGITUDE 119° 45.45'

REMARKS: CORE NOT TESTED, IN STORAGE IN MOISTURE ROOM AT ROOM TEMPERATURE, CORE OBTAINED  
19 JUNE 1970

WATER DEPTH 1200 ft

BUREAU NO. 12, p. 1                          \* \* \* \* \* CORE NO. PB - 3 \* \* \* \* \*

| LATITUDE                   | 34° 9.6 N | LONGITUDE | 119° 45.6 W | WATER DEPTH | 200. FM |       |       |
|----------------------------|-----------|-----------|-------------|-------------|---------|-------|-------|
| INTERVAL (IN)              | 0- 3      | 3- 6      | 6- 9        | 9-12        | 12-15   | 15-18 | 18-21 |
| BULK WET DENSITY (GM/CC)   | 1.283     | 1.350     | 1.392       | 1.385       | 1.359   | 1.424 | 1.438 |
| VANE SHEAR STRENGTH (PSI)  | .051      | .090      | .133        | .206        | .212    | .242  | .294  |
| REMOLDED STRENGTH (PSI)    | -         | .030      | .078        | .087        | .063    | .094  | .102  |
| SENSITIVITY                | -         | 3.0       | 1.7         | 2.4         | 3.4     | 2.6   | 2.9   |
| ORIGINAL WATER CONTENT %   | 173.0     | 146.6     | 142.1       | 133.3       | 127.3   | 121.2 | 113.6 |
| SPECIFIC GRAVITY OF SOLIDS | 2.595     | 2.559     | 2.576       | 2.575       | 2.547   | 2.544 | 2.567 |
| VOID RATIO                 | 4.522     | 3.658     | 3.481       | 3.339       | 3.258   | 2.951 | 2.812 |
| LIQUID LIMIT %             | 101.7     | -         | -           | 100.3       | -       | -     | -     |
| PLASTIC LIMIT %            | 48.3      | -         | -           | 47.7        | -       | -     | -     |
| PLASTICITY INDEX           | 53.4      | -         | -           | 52.6        | -       | -     | -     |
| LIQUIDITY INDEX            | 234.      | -         | -           | 151.        | -       | -     | -     |

\* \* \* \* \* CORE NO. PB - 3 \* \* \* \* \*

| LATITUDE                   | 34° 9.6 N | LONGITUDE | 119° 45.6 W | WATER DEPTH | 200. FM |       |       |
|----------------------------|-----------|-----------|-------------|-------------|---------|-------|-------|
| INTERVAL (IN)              | 21-24     | 24-27     | 27-30       | 30-33       | 33-36   | 36-39 | 39-42 |
| BULK WET DENSITY (GM/CC)   | 1.446     | 1.436     | 1.466       | 1.492       | 1.474   | 1.479 | 1.487 |
| VANE SHEAR STRENGTH (PSI)  | .354      | .362      | .515        | .468        | .507    | .591  | .982  |
| REMOLDED STRENGTH (PSI)    | -         | .128      | .159        | .184        | .193    | .226  | .335  |
| SENSITIVITY                | -         | 2.8       | 2.3         | 2.8         | 2.4     | 2.2   | 2.0   |
| ORIGINAL WATER CONTENT %   | 109.0     | 110.2     | 105.5       | 100.7       | 100.8   | 95.6  | 95.4  |
| SPECIFIC GRAVITY OF SOLIDS | 2.594     | 2.543     | 2.571       | 2.567       | 2.573   | 2.556 | 2.552 |
| VOID RATIO                 | 2.749     | 2.722     | 2.606       | 2.454       | 2.505   | 2.380 | 2.353 |
| LIQUID LIMIT %             | -         | 95.8      | -           | -           | -       | 94.7  | -     |
| PLASTIC LIMIT %            | -         | 46.0      | -           | -           | -       | 44.3  | -     |
| PLASTICITY INDEX           | -         | 49.8      | -           | -           | -       | 50.4  | -     |
| LIQUIDITY INDEX            | -         | 129.      | -           | -           | -       | 102.  | -     |

BUREC NO. 12, P. 2      #44444 CORE NO PB - 3      \*44444

21

LATITUDE 34° 6' N      LONGITUDE 119° 45' 6" W      WATER DEPTH 200. FM

INTERVAL (IN)      42-45      45-48

|                            |       |       |
|----------------------------|-------|-------|
| BULK WET DENSITY (GM/CC)   | 1.500 | 1.498 |
| VANE SHEAR STRENGTH (PSI)  | 693   | 574   |
| REMOLDED STRENGTH (PSI)    | 463   | 439   |
| SENSITIVITY                | 1.5   | 1.3   |
| ORIGINAL WAIR CONTENT %    | 90.8  | 93.2  |
| SPECIFIC GRAVITY OF SOLIDS | 2.566 | 2.563 |
| VOID RATIO                 | 2.264 | 2.305 |
| LIQUID LIMIT %             | -     | 91.5  |
| PLASTIC LIMIT %            | -     | 43.7  |
| PLASTICITY INDEX           | -     | 47.8  |
| LIQUIDITY INDEX            | -     | 103.  |

LATITUDE 34 9.5 N      LONGITUDE 119 45.7 W      WATER DEPTH 200. FM  
 INTERVAL (IN)      0- 3    3- 6    6- 9    9-12    12-15    15-18    18-21

|                            |       |       |       |       |       |       |       |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|
| BULK WET DENSITY (GM/CC)   | 1.324 | 1.365 | 1.376 | 1.370 | 1.390 | 1.444 | 1.444 |
| VANE SHEAR STRENGTH (PSI)  | 0.064 | 0.084 | 0.128 | 0.166 | 0.219 | 0.271 | 0.398 |
| REMOLDED STRENGTH (PSI)    | -     | 0.030 | 0.048 | 0.072 | 0.081 | 0.115 | 0.149 |
| SENSITIVITY                | -     | 2.6   | 2.6   | 2.3   | 2.7   | 2.3   | 2.7   |
| ORIGINAL WATER CONTENT %   | 164.5 | 146.2 | 141.9 | 135.4 | 127.0 | 113.9 | 110.4 |
| SPECIFIC GRAVITY OF SOLIDS | 2.571 | 2.557 | 2.536 | 2.573 | 2.556 | 2.561 | 2.585 |
| VOID RATIO                 | 4.137 | 3.615 | 3.458 | 3.423 | 3.175 | 2.794 | 2.766 |
| LIQUID LIMIT %             | 110.5 | -     | -     | -     | 100.8 | -     | -     |
| PLASTIC LIMIT %            | 47.6  | -     | -     | -     | 47.8  | -     | -     |
| PLASTICITY INDEX           | 62.9  | -     | -     | -     | 53.0  | -     | -     |
| LIQUIDITY INDEX            | 186.  | -     | -     | -     | 149.  | -     | -     |

\*\*\*\*\* CORE NO PB - 4 \*\*\*\*\*

LATITUDE 34 9.5 N      LONGITUDE 119 45.7 W      WATER DEPTH 200. FM  
 INTERVAL (IN)      21-24    24-27    27-30    30-33    33-36    38-41

|                            |       |       |       |       |       |       |
|----------------------------|-------|-------|-------|-------|-------|-------|
| BULK WET DENSITY (GM/CC)   | 1.461 | 1.456 | 1.491 | 1.486 | 1.492 | 1.472 |
| VANE SHEAR STRENGTH (PSI)  | 0.377 | 0.340 | 0.593 | 0.560 | 0.493 | 0.447 |
| REMOLDED STRENGTH (PSI)    | 0.131 | 0.184 | 0.203 | 0.266 | 0.230 | 0.294 |
| SENSITIVITY                | 2.9   | 1.8   | 2.9   | 2.1   | 2.1   | 1.5   |
| ORIGINAL WATER CONTENT %   | 108.4 | 110.0 | 97.1  | 101.1 | 100.1 | 97.1  |
| SPECIFIC GRAVITY OF SOLIDS | 2.573 | 2.568 | 2.587 | 2.608 | 2.575 | 2.585 |
| VOID RATIO                 | 2.671 | 2.703 | 2.419 | 2.529 | 2.453 | 2.462 |
| LIQUID LIMIT %             | -     | 91.0  | -     | -     | -     | 89.6  |
| PLASTIC LIMIT %            | -     | 46.0  | -     | -     | -     | 41.0  |
| PLASTICITY INDEX           | -     | 45.0  | -     | -     | -     | 48.6  |
| LIQUIDITY INDEX            | -     | 142.  | -     | -     | -     | 115.  |

BUREC NO. 14, P. 1

\*\*\*\*\* CORE NO PB - 5 \*\*\*\*\*

| LATITUDE                   | 34 9.6 N | LONGITUDE | 119 45.5 W | WATER DEPTH | 200. FM |
|----------------------------|----------|-----------|------------|-------------|---------|
| INTERVAL (IN)              | 0- 3     | 3- 0      | 6- 9       | 9-12        | 12-15   |
| BULK WET DENSITY (GM/CC)   | 1.280    | 1.374     | 1.343      | 1.412       | 1.411   |
| VANE SHEAR STRENGTH (PSI)  | .056     | .080      | .106       | .210        | .204    |
| REMOLDED STRENGTH (PSI)    | -        | .024      | .053       | .054        | .063    |
| SENSITIVITY                | -        | -         | 3.3        | 2.0         | 3.9     |
| ORIGINAL WATER CONTENT %   | 187.2    | 148.0     | 141.4      | 131.7       | 136.2   |
| SPECIFIC GRAVITY OF SOLIDS | 2.535    | 2.566     | 2.542      | 2.533       | 2.513   |
| VOID RATIO                 | 4.687    | 3.632     | 3.570      | 3.155       | 3.208   |
| LIQUID LIMIT %             | 108.1    | -         | -          | -           | 105.1   |
| PLASTIC LIMIT %            | 50.8     | -         | -          | -           | 47.8    |
| PLASTICITY INDEX           | 57.3     | -         | -          | -           | 57.3    |
| LIQUIDITY INDEX            | 238.     | -         | -          | -           | 154.    |

\*\*\*\*\* CORE NO PB - 5 \*\*\*\*\*

| LATITUDE                   | 34 9.6 N | LONGITUDE | 119 45.5 W | WATER DEPTH | 200. FM |
|----------------------------|----------|-----------|------------|-------------|---------|
| INTERVAL (IN)              | 21-24    | 24-27     | 27-30      | 30-33       | 33-36   |
| BULK WET DENSITY-(GM/CC)   | 1.464    | 1.478     | 1.491      | 1.498       | 1.501   |
| VANE SHEAR STRENGTH (PSI)  | .358     | .388      | .481       | .663        | .674    |
| REMOLDED STRENGTH (PSI)    | .179     | .182      | .206       | .306        | .340    |
| SENSITIVITY                | 2.0      | 2.1       | 2.3        | 2.2         | 2.0     |
| ORIGINAL WATER CONTENT %   | 108.5    | 110.3     | 100.1      | 99.2        | 97.3    |
| SPECIFIC GRAVITY OF SOLIDS | 2.597    | 2.588     | 2.592      | 2.626       | 2.582   |
| VOID RATIO                 | 2.698    | 2.684     | 2.479      | 2.491       | 2.394   |
| POROSITY %                 | 73.0     | 72.9      | 71.3       | 71.4        | 70.5    |
| SATURATED VOID RATIO       | 2.819    | 2.856     | 2.595      | 2.605       | 2.512   |
| LIQUID LIMIT %             | -        | 89.8      | -          | -           | 93.3    |
| PLASTIC LIMIT %            | -        | 44.9      | -          | -           | 71.0    |
| PLASTICITY INDEX           | -        | 44.9      | -          | -           | 22.3    |
| LIQUIDITY INDEX            | -        | 146.      | -          | -           | 114.    |

BUREC NO. 14, P. 2

\*\*\*\*\* CORE NO PB - 5 \*\*\*\*\*

LATITUDE 34° 9.6' N      LONGITUDE 119° 45.5' W      WATER DEPTH 200. FM  
INTERVAL (IN)      42-45

|                            |       |
|----------------------------|-------|
| BULK WET DENSITY (GM/CC)   | 1.478 |
| VANE SHEAR STRENGTH (PSI)  | • 348 |
| REMOLDED STRENGTH (PSI)    | • 287 |
| SENSITIVITY                | 1.2   |
| ORIGINAL WATER CONTENT %   | 92.8  |
| SPECIFIC GRAVITY OF SOLIDS | 2.585 |
| VOID RATIO                 | 2.370 |

BUREC NO. 15, P: 1 \* \* \* \* \* COHF NO TH = 1 \* \* \* \* \*

09005058

| BUREAU NO.                 | 15    | P.     | 2      | ***** | CORE NO.    | THICKNESS  | 1    | ***** |
|----------------------------|-------|--------|--------|-------|-------------|------------|------|-------|
| LATITUDE                   | 34    | .9.5-N |        |       | LONGITUDE   | 119 45.5 W |      |       |
| INTERVAL (IN)              | 24-27 | 30-33  | 33-36  |       | WATER DEPTH | 200. FM    |      |       |
| BULK WET DENSITY (PCF)     | 90.   | 90.    | 90.    |       |             | 92.        | 91.  |       |
| VANE SHEAR STRENGTH (PSF)  | 53.   | 75.    | 110.   |       |             | 110.       | 127. |       |
| REMOLDED STRENGTH (PSF)    | 18.   | 27.    | 35.    |       |             | 36.        | 54.  |       |
| SENSITIVITY                | 2.9   | 2.8    | 3.1    |       |             | 3.0        | 2.4  |       |
| ORIGINAL WATER CONTENT %   | 114.5 | 104.7  | 105.0  |       |             | 104.7      | 98.3 |       |
| SPECIFIC GRAVITY OF SOLIDS | 2.51  | 2.54   | 2.54   |       |             | 2.49       | 2.50 |       |
| VOID RATIO                 | 2.75  | 2.61   | 2.61   |       |             | 2.47       | 2.39 |       |
| LIQUID LIMIT %             |       |        | 97.    |       |             |            |      |       |
| PLASTIC LIMIT %            |       |        | 43.    |       |             |            |      |       |
| PLASTICITY INDEX           |       |        | 54.    |       |             |            |      |       |
| LIQUIDITY INDEX            |       |        | 114.   |       |             |            |      |       |
| CARBONATE-CARBON-CONTENT-% |       |        | 1.04   |       |             |            |      |       |
| ORGANIC CARBON CONTENT %   |       |        | 2.33   |       |             |            |      |       |
| SAND %                     |       |        | 3.9    |       |             |            |      |       |
| SILT %                     |       |        | 51.1   |       |             |            |      |       |
| CLAY %                     |       |        | 45.0   |       |             |            |      |       |
| ACTIVITY                   |       |        | 1.6    |       |             |            |      |       |
| MEDIAN-DIAMETER-(MM)       |       |        | 0.0064 |       |             |            |      |       |
| COLOR (GSA NO.)            | 5Y4/4 | 5Y4/4  | 5Y4/4  |       |             |            |      |       |
|                            |       |        | 5Y4/4  |       |             |            |      |       |

BUREC NO. 16

\*\*\*\*\*

LATITUDE 34 9.6 N      LONGITUDE 119 46.0 W      WATER DEPTH 200. FM  
INTERVAL (IN)      0- 3      3- 6      6- 9      9-12      12-15

| COLOR (GSA NO.)            | 5Y4/4 | 5Y4/4 | 5Y4/4 | 5Y4/4 | 5Y4/4 |
|----------------------------|-------|-------|-------|-------|-------|
| BULK WET DENSITY (PCF)     | 83.   | 84.   | 85.   | 85.   | 85.   |
| VANE SHEAR STRENGTH (PSF)  | 12.   | 17.   | 26.   | 33.   | 41.   |
| REMOLDED STRENGTH (PSF)    | 4.    | 9.    | 10.   | 9.    | 15.   |
| SENSITIVITY                | 3.2   | 1.9   | 2.5   | 3.6   | 2.8   |
| ORIGINAL WATER CONTENT %   | 153.1 | 140.3 | 135.1 | 135.0 | 128.1 |
| SPECIFIC GRAVITY OF SOLIDS | 2.47  | 2.50  | 2.46  | 2.56  | 2.50  |
| VOID RATIO                 | 3.67  | 3.48  | 3.27  | 3.43  | 3.18  |
| LIQUID LIMIT %             |       |       |       | 104.  |       |
| PLASTIC LIMIT %            |       |       |       | 46.   |       |
| PLASTICITY INDEX           |       |       |       | 58.   |       |
| LIQUIDITY INDEX            |       |       |       | 152.  |       |
| CARBONATE CARBON CONTENT % |       |       |       |       | 1.07  |
| ORGANIC CARBON CONTENT %   |       |       |       |       | 2.61  |
| SAND %                     | 55    | 55    | 55    | 55    | 5.1   |
| SILI %                     | 25    | 25    | 25    | 25    | 48.4  |
| CLAY %                     | 20    | 20    | 20    | 20    | 46.5  |
| ACTIVITY                   |       |       |       | 1.6   |       |
| MEDIAN DIAMETER (MM)       |       |       |       | .0059 |       |

BUREAU NO. 18

\*\*\*\*\* CORE NO. 1H-4 \*\*\*\*\*

LATITUDE 34° 8.96' N      LONGITUDE 119° 45.52' W      WATER DEPTH 195. FM  
INTERVAL (IN)      3-6      12-15      24-27.

|                            |        |        |        |
|----------------------------|--------|--------|--------|
| COLOR (GSA NO.)            | 10Y4/2 | 10Y4/2 | 10Y4/2 |
| BULK WET DENSITY (PCF)     | 87.    | 94.    | 94.    |
| VANE SHEAR STRENGTH (PSF)  | 19.    | 87.    | 155.   |
| REMOLDED STRENGTH (PSF)    | 5.     | 19.    | 38.    |
| SENSITIVITY                | 4.1    | 4.5    | 4.1    |
| ORIGINAL WATER CONTENT %   | 115.8  | 88.5   | 94.2   |
| SPECIFIC GRAVITY OF SOLIDS | 2.56   | 2.58   | 2.62   |
| VOID RATIO                 | 2.98   | 2.24   | 2.21   |
| LIQUID LIMIT %             | 84.    | 81.    | 83.    |
| PLASTIC LIMIT %            | 44.    | 41.    | 39.    |
| PLASTICITY INDEX           | 40.    | 40.    | 44.    |
| LIGUIDITY INDEX            | 179.   | 119.   | 103.   |
| CARBONATE CARBON CONTENT % | 1.23   | 1.01   | 1.35   |
| ORGANIC CARBON CONTENT %   | 2.26   | 1.89   | 1.77   |
| SAND %                     | 19.8   | 13.0   | 11.5   |
| SILT %                     | 40.9   | 45.5   | 43.2   |
| CLAY %                     | 39.3   | 41.5   | 45.3   |
| ACTIVITY                   | 1.3    | 1.3    | 1.3    |
| MEDIAN DIAMETER (MM)       | 0.0108 | 0.0093 | 0.0067 |

BUREC NO. 17

\*\*\*\*\* COKE NO TH - - - 5 \*\*\*\*\*

LATITUDE 34 9.86 N LONGITUDE 119 45.54 W  
INTERVAL (IN) 3- 6 12-15 23-26 WATER DEPTH 192. FM

|                            |        |        |        |
|----------------------------|--------|--------|--------|
| COLOR (GSA NO.)            | 10Y4/2 | 10Y4/2 | 10Y4/2 |
| HULK WET DENSITY (PCF)     | 83.    | 88.    | 88.    |
| VANE SHEAR STRENGTH (PSF)  | 11.    | 28.    | 59.    |
| REMOLDED STRENGTH (PSF)    | 3.     | 8.     | 21.    |
| SENSITIVITY                | 4.3    | 3.7    | 2.8    |
| ORIGINAL WATER CONTENT %   | 151.7  | 129.8  | 109.6  |
| SPECIFIC GRAVITY OF SOLIDS | 2.47   | 2.59   | 2.55   |
| VOID RATIO                 | 3.66   | 2.78   |        |
| LIQUID LIMIT %             | 109.   | 107.   | 100.   |
| PLASTIC LIMIT %            | 50.    | 54.    | 47.    |
| PLASTICITY INDEX           | 59.    | 53.    | 53.    |
| LIQUIDITY INDEX            | 174.   | 144.   | 118.   |
| CARBONATE CARBON CONTENT % | 1.07   | 1.27   | 1.27   |
| ORGANIC CARBON CONTENT %   | 2.56   | 2.64   | 2.13   |
| SAND %                     | 6.0    | 6.0    | 4.7    |
| SILT %                     | 46.5   | 46.9   | 43.0   |
| CLAY %                     | 47.5   | 47.1   | 52.3   |
| ACTIVITY                   | 1.7    | 1.5    | 1.4    |
| MEDIAN DIAMETER (MM)       | 0.0057 | 0.0056 | 0.0045 |

BUREC NO. 19, P. 1 \*\*\*\*\* CORE NO. TH - 2 \*\*\*\*\*

LATITUDE 34° 9.5' N. --- LONGITUDE 119° 44.8' W. --- WATER DEPTH 198. FM  
INTERVAL (IN) 0- 3 3- 6 6- 9 9-12 12-15 15-18 18-21 21-24

| COLOR (GSA NO.)            | 5Y4/4 | 5Y4/4 | 5Y4/4  | 5Y4/4 | 5Y4/4 | 5Y4/4  | 5Y4/4 | 5Y4/4 |
|----------------------------|-------|-------|--------|-------|-------|--------|-------|-------|
| BULK WET DENSITY (PCF)     | 80.   | 85.   | 86.    | 87.   | 48.   | 89.    | 88.   |       |
| VANF. SHEAR STRENGTH (PSF) | 18.   | 22.   | 31.    | 21.   | 31.   | 46.    | 47.   |       |
| REMOLDED STRENGTH (PSF)    | 7.    | 10.   | 9.     | 9.    | 13.   | 17.    | 17.   |       |
| SENSITIVITY                | 2.6   | 2.2   | 3.3    | 2.4   | 2.5   | 2.8    | 2.8   |       |
| ORIGINAL-WATER-GOMIENT %   | 146.5 | 134.4 | 130.0  | 128.9 | 129.5 | 116.6  | 129.0 |       |
| SPECIFIC GRAVITY OF SOLIDS | 2.46  | 2.47  | 2.48   | 2.54  | 2.49  | 2.52   | 2.54  |       |
| VOID RATIO                 | 3.73  | 3.24  | 3.12   | 3.18  | 6.50  | 2.82   | 2.96  |       |
| LIMIT LIMIT %              |       |       | 101.   |       |       | 98.    |       |       |
| PLASTIC LIMIT %            |       |       | 44.    |       |       | 46.    |       |       |
| PLASTICITY INDEX           |       |       | 57.    |       |       | 52.    |       |       |
| LIQUIDITY INDEX            |       |       | 148.   |       |       | 142.   |       |       |
| CARBONATE CARBON CONTENT % |       |       | 1.23   |       |       | 1.20   |       |       |
| ORGANIC CARBON CONTENT %   |       |       | 2.29   |       |       | 2.40   |       |       |
| SAND %                     |       |       | 5.1    |       |       | 4.4    |       |       |
| SILT %                     |       |       | 48.9   |       |       | 50.8   |       |       |
| CLAY %                     |       |       | 46.0   |       |       | 44.8   |       |       |
| ACTIVITY                   |       |       | 1.0    |       |       | 1.5    |       |       |
| MEDIAN DIAMETER (MM)       |       |       | • 0064 |       |       | • 0065 |       |       |

LATITUDE - 34° 9.5' N      LONGITUDE - 119° 44.8' W      WATER DEPTH - 198.0' FM  
 INTERVAL (IN)      24-27      30-33      33-36      36-39

| COLOR (GSA NO.)            | 5Y4/4 | 5Y4/4  | 5Y4/4 | 5Y4/4 |
|----------------------------|-------|--------|-------|-------|
| HULK WET DENSITY - (PCF)   | 87.   | 89.    | 88.   | 84.   |
| VANE SHEAR STRENGTH (PSF)  | 57.   | 32.    | 38.   | 61.   |
| REMOLDED STRENGTH (PSF)    | 17.   | 22.    | 18.   | 26.   |
| SENSITIVITY                | 3.4   | 1.4    | 2.1   | 2.3   |
| ORIGINAL WATER CONTENT - % | 52.9  | 202.6  | 111.7 | 107.8 |
| SPECIFIC GRAVITY OF SOLIDS | 2.51  | 2.50   | 2.56  | 2.51  |
| VOID RATIO                 | 1.75  | 4.33   | 2.84  | 2.68  |
| LIQUID LIMIT %             | 93.   |        |       |       |
| PLASTIC LIMIT %            |       | 43.    |       |       |
| PLASTICITY INDEX           |       | 50.    |       |       |
| LIQUIDITY INDEX            |       | 138.   |       |       |
| CARBONATE CARBON CONTENT % |       | 1.16   |       |       |
| ORGANIC CARBON CONTENT %   |       | 2.29   |       |       |
| SAND %                     |       | 4.6    |       |       |
| SILT %                     |       | 50.4   |       |       |
| CLAY %                     |       | 45.0   |       |       |
| ACTIVITY                   |       | 1.6    |       |       |
| MEDIAN DIAMETER (MM)       |       | • 0064 |       |       |

BUREC NO. 20

\*\*\*\*\* CORE NO SCN1 - 34 \*\*\*\*\*

LATITUDE 34° 14.81' N      LONGITUDE 119° 44.26' W      WATER DEPTH 100. FM  
INTERVAL (IN)      0 - 3

COLOR (GSA NO.)      SY3/2

BULK WET DENSITY (PCF)      107.

VANE SHEAR STRENGTH (PSF)      37.

REMOLDED STRENGTH (PSF)      19.

SENSITIVITY      2.0

ORIGINAL WATER CONTENT %      54.0

SPECIFIC GRAVITY OF SOLIDS      2.61

VOID RATIO      1.35

LIQUID LIMIT %      37.

PLASTIC LIMIT %      32.

PLASTICITY INDEX      5.

LIQUIDITY INDEX      439.

CARBONATE CARBON CONTENT %      .31

ORGANIC CARBON CONTENT %      .92

SAND %      51.0

SILT %      32.0

CLAY %      17.0

ACTIVITY      .4

MEDIAN DIAMETER (MM)      .0510

LATITUDE 34 14.80 N      LONGITUDE 119 44.85 W      WATER DEPTH 100. FM  
INTERVAL (IN) 0- 3

|                            |       |
|----------------------------|-------|
| COLOR (GSA NO.)            | SY3/2 |
| BULK WET DENSITY (PCF)     | 101.  |
| VANE SHEAR STRENGTH (PSF)  | 45.   |
| REMOLDED STRENGTH (PSF)    | 20.   |
| SENSITIVITY                | 2.3   |
| ORIGINAL WATER-CONTENT-%   | 50.9  |
| SPECIFIC GRAVITY OF SOLIDS | 2.60  |
| VOID RATIO                 | 1.42  |
| LIQUID LIMIT %             | 39.   |
| PLASTIC LIMIT %            | 34.   |
| PLASTICITY INDEX           | 5.    |
| LIQUNIITY-INDEX            | 352.  |
| CARBONATE CARBON CONTENT % | .44   |
| ORGANIC CARBON CONTENT %   | .83   |
| SAND %                     | 50.0  |
| SILT %                     | 34.4  |
| CLAY %                     | 15.6  |
| ACTIVITY                   | .4    |
| MEDIAN DIAMETER (MM)       | .0500 |

BUREC NO. 22

CORE NO SCNI = 36 \*\*\*\*

34

LATITUDE 34° 14.61' N      LONGITUDE 119° 44.32' W      WATER DEPTH 100. FM  
 INTERVAL (IN)      0 - 3

|                            |       |
|----------------------------|-------|
| COLOR (GSA NO.)            | SY3/2 |
| BULK UNIT DENSITY (PCF)    | 108.  |
| VANE SHEAR STRENGTH (PSF)  | 43.   |
| REMOLDED STRENGTH (PSF)    | 23.   |
| SENSITIVITY                | 1.9   |
| ORIGINAL WATER CONTENT-%   | 53.2  |
| SPECIFIC GRAVITY OF SOLIDS | 2.59  |
| VOID RATIO                 | 1.30  |
| LIQUID LIMIT %             | 38.   |
| PLASTIC LIMIT %            | 30.   |
| PLASTICITY INDEX           | 8.    |
| LIQUIDITY INDEX            | 275.  |
| CARBONATE CARBON CONTENT-% | .46   |
| ORGANIC CARBON CONTENT-%   | .77   |
| SAND %                     | 50.8  |
| SILT %                     | 35.5  |
| CLAY %                     | 13.7  |
| ACTIVITY                   | .7    |
| MEDIAN DIAMETER (MM)       | .0510 |

LATITUDE - 34° 14.67' N.      LONGITUDE - 119° 44.52' W.      WATER DEPTH - 100. FM  
INTERVAL (IN)      0- 3      3- 6      6- 9      9-12      12-15      15-18      18-21

2

LATITUDE 34° 14.67' N LONGITUDE 119° 44.52' W WATER DEPTH 100.0 FM  
INTERVAL (IN) 21-24 24-27 27-30 30-33 33-36 36-39

BUREC NO. 24

\*\*\*\*\* CORE - NU - SCN1 - 39 \*\*\*\*\*

LATITUDE - 34-14.64 N      LONGITUDE 119 44.38 W      WATER DEPTH 100. FM  
INTERVAL (IN)      0- 3      12-15      24-27      36-39

|                            |        |        |        |        |
|----------------------------|--------|--------|--------|--------|
| BULK WET DENSITY (PCF)     | 112.   | 104.   | 106.   | 112.   |
| VANE SHEAR STRENGTH (PSF)  | 66.    | 155.   | 180.   | 179.   |
| REMOULDED STRENGTH (PSF)   | 30.    | 59.    | 95.    | 87.    |
| SENSITIVITY                | 2.2    | 2.6    | 1.9    | 2.1    |
| ORIGINAL WATER CONTENT %   | 44.5   | 66.7   | 59.5   | 51.7   |
| SPECIFIC GRAVITY OF SOLIDS | 2.64   | 2.65   | 2.64   | 2.64   |
| VOID RATIO                 | 1.13   | 1.64   | 1.47   | 1.24   |
| LIQUID LIMIT %             | 35.    | 57.    | 58.    | 50.    |
| PLASTIC LIMIT %            | •      | 31.    | 33.    | 31.    |
| LIQUIDITY INDEX            | •      | 26.    | 25.    | 19.    |
| CARBONATE-CARBON CONTENT % | • 52   | • 69   | • 77   | • 85   |
| ORGANIC CARBON CONTENT %   | • 79   | • 1.10 | • 98   | • 89   |
| SAND %                     | 50.5   | 16.0   | 10.0   | 13.2   |
| SILT %                     | 34.5   | 45.6   | 49.0   | 53.9   |
| CLAY %                     | 15.0   | 38.4   | 41.0   | 32.9   |
| ACTIVITY                   | • 9    | • 9    | • 9    | • 8    |
| MEDIAN DIAMETER (MM)       | • 0510 | • 0103 | • 0085 | • 0130 |
| COLOR (GSA NO.)            | 10Y4/2 | 10Y4/2 | 10Y4/2 | 10Y4/2 |
| f                          |        |        |        |        |

BUREC NO. 25

\*\*\*\*\* CORE NO. SCNI - 40 \*\*\*\*\*

LATITUDE 34 14.68 N      LONGITUDE 119 44.43 W      WATER DEPTH 100. FM  
INTERVAL (IN)      0 - 3      12-15      24-27      36-39

|                            |        |        |        |        |
|----------------------------|--------|--------|--------|--------|
| BULK WET DENSITY (PCF)     | 111.   | 104.   | 104.   | 100.   |
| VANE SHEAR STRENGTH (PSF)  | 119.   | 99.    | 193.   | 123.   |
| REMOLDED STRENGTH (PSF)    | 56.    | 53.    | 75.    | 77.    |
| SENSITIVITY                | 2.1    | 1.9    | 2.6    | 1.6    |
| ORIGINAL WATER CONTENT %   | 44.3   | 61.6   | 59.9   | 54.0   |
| SPECIFIC GRAVITY OF SOLIDS | 2.61   | 2.56   | 2.59   | 2.57   |
| VOID RATIO                 | 1.11   | 1.49   | 1.48   | 1.47   |
| LIQUID LIMIT %             | 38.    | 52.    | 59.    | 54.    |
| PLASTIC LIMIT %            | 30.    | 28.    | 31.    | 30.    |
| PLASTICITY INDEX           | 8.     | 24.    | 28.    | 24.    |
| LIQUIDITY INDEX            | 187.   | 142.   | 103.   | 99.    |
| CARBONATE-CARBON CONTENT % | •41    | •68    | •66    | •72    |
| ORGANIC CARBON CONTENT %   | •94    | •97    | •96    | 1.02   |
| SAND %                     | 47.0   | 19.0   | 6.4    | 8.7    |
| SILT %                     | 35.3   | 46.2   | 50.9   | 53.5   |
| CLAY %                     | 17.7   | 34.8   | 42.7   | 37.8   |
| ACTIVITY                   | .6     | .9     | .9     | .9     |
| MEDIAN-DIAMETER-(MM)       | •0480  | •0140  | •0076  | •0095  |
| COLOR (GSA NO.)            | 10Y4/2 | 10Y4/2 | 10Y4/2 | 10Y4/2 |

BUREC NO. 26

\*\*\*\*\* CORE NO SCNT 41 \*\*\*\*\*

LATITUDE 34-14.54 N  
INTERVAL (IN) 0- 3 12-15 24-27

|                            |        |        |        |
|----------------------------|--------|--------|--------|
| BULK WET DENSITY (PCF)     | 116.   | 114.   | 114.   |
| VANE SHEAR STRENGTH (PSF)  | 62.    | 126.   | 203.   |
| REMOLDED STRENGTH (PSF)    | 35.    | 61.    | 102.   |
| SENSITIVITY                | 1.8    | 2.1    | 2.0    |
| ORIGINAL WATER CONTENT %   | 44.8   | 56.3   | 51.9   |
| SPECIFIC GRAVITY OF SOLIDS | 2.58   | 2.58   | 2.60   |
| VOID RATIO                 | 1.02   | 1.22   | 1.16   |
| LIQUID LIMIT %             | 36.    | 51.    | 50.    |
| PLASTIC LIMIT %            | 29.    | 30.    | 30.    |
| PLASTICITY INDEX           | 7.     | 21.    | 20.    |
| LIQUIDITY INDEX            | 231.   | 127.   | 109.   |
| CARBONATE-CARBON CONTENT % | .49    | .89    | .72    |
| ORGANIC CARBON CONTENT %   | .85    | 1.02   | .95    |
| SAND %                     | 51.0   | 17.8   | 12.4   |
| SILT %                     | 32.0   | 49.5   | 51.7   |
| CLAY %                     | 17.0   | 32.7   | 35.9   |
| ACTIVITY                   | .5     | " 9    | " 8    |
| MEDIAN-DIAMETER (MM)       | .0520  | .0160  | .0110  |
| COLOR (GSA NO.)            | 10Y4/2 | 10Y4/2 | 10Y4/2 |

BUREC NO. 27

\*\*\*\*\* COKE NO SCNI - 42 \*\*\*\*\*

LATITUDE 34° 14.56' N      LONGITUDE 119° 44.48' W      WATER DEPTH 100. FM  
INTERVAL (IN)      0- 3      12-15      24-27

|                            |        |        |        |
|----------------------------|--------|--------|--------|
| BULK WET DENSITY (PCF)     | 107.   | 104.   | 108.   |
| VAN V SHEAR STRENGTH (PSF) | 73.    | 165.   | 177.   |
| REMOLDED STRENGTH (PSF)    | .      | 75.    | 73.    |
| SENSITIVITY                | .      | 2.2    | 2.4    |
| ORIGINAL WATER CONTENT %   | 48.1   | 93.0   | 51.3   |
| SPECIFIC GRAVITY OF SOLIDS | 2.60   | 2.61   | 2.61   |
| VOID RATIO                 | 1.25   | 2.02   | 1.29   |
| LIQUID LIMIT %             | 38.    | 54.    | 48.    |
| PLASTIC LIMIT %            | 31.    | 31.    | 29.    |
| PLASTICITY INDEX           | 7.     | 23.    | 19.    |
| Liquidity Index            | 24.9   | 263.   | 115.   |
| CARBONATE-CARBON-CONTENT % | 52     | .71    | .98    |
| ORGANIC CARBON CONTENT %   | 84     | 1.06   | .78    |
| SAND %                     | 48.5   | 11.6   | 14.0   |
| SILI %                     | 34.5   | 51.0   | 53.0   |
| CLAY %                     | 17.0   | 37.4   | 33.0   |
| ACTIVITY                   | .6     | .9     | .8     |
| MEDIAN-DIAMETER-(MM)       | .0492  | .0104  | .0141  |
| COLOR (GSA NO.)            | 10Y4/2 | 10Y4/2 | 10Y4/2 |

BUREC NO. 28

\*\*\*\*\* CORE NO SCN1 - 46 \*\*\*\*\*

LATITUDE - 34° 14.59' N      LONGITUDE - 119° 44.50' W  
INTERVAL (IN)      0 - 3      12-15      24-27

|                            |        |        |        |
|----------------------------|--------|--------|--------|
| BULK WET DENSITY (PCF)     | 102.   | 100.   | 104.   |
| VANE SHEAR STRENGTH (PSF)  | 78.    | 117.   | 114.   |
| REMOLDED STRENGTH (PSF)    | 43.    | 49.    | 39.    |
| SENSITIVITY                | 1.8    | 2.4    | 2.9    |
| ORIGINAL WATER CONTENT %   | 53.1   | 60.7   | 62.7   |
| SPECIFIC GRAVITY OF SOLIDS | 2.63   | 2.64   | 2.63   |
| VOID RATIO                 | 1.47   | 1.66   | 1.56   |
| LIQUID LIMIT %             | 39.    | 52.    | 52.    |
| PLASTIC LIMIT %            | 28.    | 29.    | 28.    |
| PLASTICITY INDEX           | 11.    | 23.    | 24.    |
| LIQUIDITY INDEX            | 222.   | 140.   | 143.   |
| CARBONATE-CARBON CONTENT % | • 98   | • 76   | • 46   |
| ORGANIC CARBON CONTENT %   | • 79   | • 95   | • 96   |
| SAND %                     | 43.5   | 17.0   | 13.0   |
| SILT %                     | 37.7   | 49.8   | 49.8   |
| CLAY %                     | 18.8   | 33.2   | 37.2   |
| ACTIVITY                   | • 7    | • 9    | • 9    |
| MEDIAN-DIAMETER (MM)       | • 0460 | • 0150 | • 0110 |
| COLOR (GSA NO.)            | 10Y4/2 | 10Y4/2 | 10Y4/2 |

BUREO NO. 29

#44444 CORE NO. SCN1 - 48 #####

LATITUDE 34 14.68 N. LONGITUDE 119 44.48 W. WATER DEPTH 100. FM  
INTERVAL (IN) 0 - 3 12-15

|                            |        |        |
|----------------------------|--------|--------|
| BULK WET DENSITY (PCF)     | 108.   | 101.   |
| VANE SHEAR STRENGTH (PSF)  | 157.   | 151.   |
| REMOLDED STRENGTH (PSF)    | 76.    | 89.    |
| SENSITIVITY                | 2.1    | 1.7    |
| ORIGINAL WATER CONTENT %   | 40.1   | 58.1   |
| SPECIFIC GRAVITY OF SOLIDS | 2.62   | 2.63   |
| VOID RATIO                 | 1.12   | 1.57   |
| LIQUID LIMIT %             | 36.    | 52.    |
| PLASTIC LIMIT %            | 32.    | 31.    |
| PLASTICITY INDEX           | 4.     | 21.    |
| Liquidity Index            | 192.   | 128.   |
| CARBONATE-CARBON CONTENT % | .89    | .63    |
| ORGANIC CARBON CONTENT %   | .94    | 1.12   |
| SAND %                     | 45.0   | 17.4   |
| SILT %                     | 37.2   | 48.9   |
| CLAY %                     | 17.8   | 33.7   |
| ACTIVITY                   | .3     | .8     |
| MEDIAN DIAMETER (MM)       | .0460  | .0138  |
| COLOR (GSA NO.)            | 10Y4/2 | 10Y4/2 |

BUREAU NO. 30, P. 1 \* \* \* \* \* CORE NO SCN1 - 49 \* \* \* \* \*

Latitude 34° 14.64' N.      Longitude 119° 44.637' W.

LATITUDE 34° 14.50' N      LONGITUDE 119° 44.44' W      WATER DEPTH 100. FM  
 INTERVAL (IN)      21-24      24-27      27-30      30-33      33-36

|                            |        |        |        |        |        |
|----------------------------|--------|--------|--------|--------|--------|
| BULK WET DENSITY (PCF)     | 98.    | 97.    | 100.   | 97.    | 101.   |
| VANE SHEAR STRENGTH (PSF)  | 182.   | 129.   | 267.   | 177.   | 171.   |
| REMOLDED STRENGTH (PSF)    | 76.    | 56.    | 72.    | 73.    | 67.    |
| SENSITIVITY                | 7.4    | 2.3    | 3.7    | 2.4    | 2.5    |
| ORIGINAL WATER CONTENT %   | 59.0   | 62.8   | 59.2   | 58.6   | 61.1   |
| SPECIFIC GRAVITY OF SOLIDS | 2.68   | 2.68   | 2.69   | 2.65   | 2.68   |
| VOID RATIO                 | 1.73   | 1.81   | 1.67   | 1.70   | 1.66   |
| LIQUID LIMIT %             | 55.    | 54.    | 54.    | 53.    | 53.    |
| PLASTIC LIMIT %            | 31.    | 31.    | 32.    | 31.    | 30.    |
| PLASTICITY INDEX           | 24.    | 23.    | 22.    | 22.    | 23.    |
| LIQUIDITY INDEX            | 116.   | 137.   | 122.   | 124.   | 134.   |
| CARBONATE CARBON CONTENT % | .74    | .50    | .61    | .74    | .66    |
| ORGANIC CARBON CONTENT %   | .99    | 1.05   | 1.03   | 1.05   | 1.00   |
| SAND %                     | 11.0   | 12.0   | 8.8    | 11.5   | 13.0   |
| SILT %                     | 52.4   | 49.6   | 52.5   | 51.0   | 51.5   |
| CLAY %                     | 36.6   | 38.4   | 38.7   | 37.5   | 35.5   |
| ACTIVITY                   | .9     | 1.0    | .8     | .9     | .8     |
| MEDIAN DIAMETER (MM)       | .0104  | .0096  | .0094  | .0102  | .0110  |
| COLOR (GSA NO.)            | 10Y4/2 | 10Y4/2 | 10Y4/2 | 10Y4/2 | 10Y4/2 |

BUREG NO. 31

\*\*\*\*\* CORE NO SCN1 - 1 \*\*\*\*\*

LATITUDE - 34° 17.40' N      LONGITUDE 119° 43.50' W      WATER DEPTH - 93.0 FM  
INTERVAL (IN)      0 - 3      12-15      24-27

| COLOR (GSA NO.)            | 5Y3/2 | 5Y3/2 | 5Y3/2 |
|----------------------------|-------|-------|-------|
| BULK DENSITY (PCF)         | 99.   | 111.  | 112.  |
| VANE SHEAR STRENGTH (PSF)  | 34.   | 102.  | 211.  |
| REMOLDED STRENGTH (PSF)    | 6.    | 40.   | 78.   |
| SENSITIVITY                | 5.2   | 2.5   | 2.7   |
| ORIGINAL-WATER CONTENT-%   | 77.6  | 48.4  | 46.7  |
| SPECIFIC GRAVITY OF SOLIDS | 2.50  | 2.51  | 2.53  |
| VOID RATIO                 | 1.81  | 1.10  | 1.06  |
| LIQUID LIMIT %             | 49.   | 40.   | 44.   |
| PLASTIC LIMIT %            | 33.   | 29.   | 29.   |
| PLASTICITY INDEX           | 16.   | 11.   | 15.   |
| LIQUIDITY INDEX            | 281.  | 178.  | 116.  |
| CARBONATE CARBON CONTENT % | .33   | .33   | .31   |
| ORGANIC CARBON CONTENT %   | 1.39  | .98   | 1.03  |
| SAND %                     | 21.8  | 19.0  | 10.4  |
| SILT %                     | 53.2  | 59.2  | 61.6  |
| CLAY %                     | 25.0  | 21.8  | 28.0  |
| ACTIVITY                   | 0.9   | 0.7   | 0.8   |
| MEDIAN DIAMETER (MM)       | .0244 | .0292 | .0195 |

REMARKS \*\*\*

THIS CORE WAS TAKEN FROM THE AREA 8 MILES SOUTH OF SANTA BARBARA.  
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\*\*\*\*\* CORE NO SCNI - 56 \*\*\*\*\*

LATITUDE 0 0.00 N  
 INTERVAL (IN) 0- 3 12- 15 24- 27 36- 39 48- 51 60- 63

|                            |      |      |      |      |      |      |
|----------------------------|------|------|------|------|------|------|
| BULK WET DENSITY (PCF)     | 98   | 109  | 111  | 113  | 113  | 106  |
| VANE SHEAR STRENGTH (PSF)  | 59   | 116  | 74   | 178  | 336  | 216  |
| REMOLEDED STRENGTH (PSF)   | 10   | 44   | 54   | 91   | 106  | 75   |
| SENSITIVITY                | 6.5  | 2.7  | 1.4  | 2.0  | 3.2  | 2.9  |
| ORIGINAL WATER CONTENT %   | 68.1 | 45.5 | 45.3 | 44.2 | 44.8 | 54.7 |
| SPECIFIC GRAVITY OF SOLIDS | 2.56 | 2.63 | 2.61 | 2.60 | 2.60 | 2.60 |
| VOID RATIO                 | 1.73 | 1.19 | 1.12 | 1.07 | 1.08 | 1.37 |
| LIQUID LIMIT %             | 45   | 36   | 34   | 43   | 43   | 55   |
| PLASTIC LIMIT %            | 18   |      | 27   |      | 28   | 32   |
| PLASTICITY INDEX           | 27   |      | 16   | 16   | 16   | 23   |
| LIQUIDITY INDEX            | 1.86 |      | 1.11 | 1.12 | 1.08 | .99  |

\*\*\*\*\* CORE NO SCNI - 56 \*\*\*\*\*

INTERVAL (IN)

72- 75- 84- 87

|                            |      |      |
|----------------------------|------|------|
| BULK WET DENSITY (PCF)     | 112  | 108  |
| VANE SHEAR STRENGTH (PSF)  | 224  | 240  |
| REMOLEDED STRENGTH (PSF)   | 91   | 100  |
| SENSITIVITY                | 2.5  | 2.5  |
| ORIGINAL WATER CONTENT %   | 44.4 | 50.9 |
| SPECIFIC GRAVITY OF SOLIDS | 2.58 | 2.60 |
| VOID RATIO                 | 1.08 | 1.27 |
| LIQUID LIMIT %             | 45   | 50   |
| PLASTIC LIMIT %            | 29   | 30   |
| PLASTICITY INDEX           | 17   | 19   |
| LIQUIDITY INDEX            | .98  | 1.08 |

BUREC NO. 33 \*\*\*\* CORE NO. SCNI-57

LATITUDE  $34^{\circ} 17.20'$  LONGITUDE  $119^{\circ} 42.75'$  WATER DEPTH 600 ft

REMARKS: CORE NOT TESTED, IN STORAGE IN MOISTURE ROOM AT ROOM TEMPERATURE, CORE OBTAINED  
29 APRIL 1970

09005058

LATITUDE 34° 17.19' N LONGITUDE 119° 42.73' W WATER DEPTH 98. FM  
INTERVAL (IN) 0- 3 3- 6 6- 9 9-12 12-15 15-18 18-21

| COLOR (GSA NO.)            | 5Y5/2 | 5Y3/2 | 5Y3/2 | 5Y3/2 | 5Y3/2 | 5Y3/2 |
|----------------------------|-------|-------|-------|-------|-------|-------|
| BULK WET DENSITY (PCF)     | 98.   | 107.  | 113.  | 117.  | 114.  | 111.  |
| VANE SHEAR STRENGTH (PSF)  | 32.   | 81.   | 116.  | 156.  | 170.  | 88.   |
| REMOLDED STRENGTH (PSF)    | .6.   | 27.   | 38.   | 61.   | 71.   | 79.   |
| SENSITIVITY                | 5.0   | 3.0   | 2.9   | 2.6   | 2.4   | 1.1   |
| ORIGINAL-WATER CONTENT %   | 69.7  | 50.9  | 45.3  | 38.3  | 40.5  | 42.0  |
| SPECIFIC GRAVITY OF SOLIDS | 2.58  | 2.63  | 2.63  | 2.63  | 2.64  | 2.64  |
| VOID RATIO                 | 1.79  | 1.31  | 1.12  | .95   | 1.03  | 1.06  |
| LIQUID LIMIT %             | 48.   | 41.   | 39.   | 35.   | 37.   | 40.   |
| PLASTIC LIMIT %            | 32.   | 28.   | 31.   | 29.   | 32.   | 35.   |
| PLASTICITY INDEX           | 16.   | 13.   | 8.    | 6.    | 5.    | 5.    |
| LIQUIDITY INDEX            | 228.  | 168.  | 170.  | 148.  | 167.  | 147.  |
| CARBONATE CARBON CONTENT % | .43   | .30   | .34   | .36   | .30   | .40   |
| ORGANIC CARBON CONTENT %   | 1.11  | .91   | .89   | .74   | .82   | .81   |
| SAND %                     | 22.6  | 25.5  | 25.5  | 28.0  | 22.4  | 17.3  |
| SILT %                     | 52.3  | 53.2  | 55.4  | 55.3  | 58.8  | 60.0  |
| CLAY %                     | 25.1  | 21.3  | 19.1  | 16.7  | 18.8  | 22.7  |
| ACTIVITY                   | .8    | .9    | .5    | .4    | .3    | .6    |
| MEDIAN DIAMETER (MM)       | .0279 | .0312 | .0312 | .0365 | .0324 | .0264 |
|                            |       |       |       |       |       | .0218 |

## REMARKS \*\*\*

LOHAC COORDINATES, GREEN 757.4, RED 89.0

THIS SAMPLE WAS TAKEN FROM THE AREA SOUTH OF SANTA BARBARA. THE SAMPLE WAS QUITE UNIFORM, VISUALLY IT PRESENTED VERY LITTLE SMALL SHELL FRAGMENTS. INTERVAL 15-18 INCHES RECORDED A VERY LOW READING IN THE ORIGINAL VANE SHEAR TEST. POSSIBLY CAUSED BY HAVING A VOID IN THE CENTER OF THE SAMPLE WHERE THE VANE WAS INSERTED.

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BUREC NO. 34, p. 2

\*\*\*\*\* CORE NO SCNI - 55 \*\*\*\*\*

LATITUDE 34 17.19 N      LONGITUDE 119 42.73 W      WATER DEPTH 98. FM  
INTERVAL (IN) 21-24

|                            |       |
|----------------------------|-------|
| COLOR (GSA NO.)            | SY3/2 |
| BULK WET DENSITY (PCF)     | 109.  |
| VANE SHEAR STRENGTH (PSF)  | 160.  |
| REMOLDED STRENGTH (PSF)    | 77.   |
| SENSITIVITY                | 2.2   |
| ORIGINAL WATER CONTENT %   | 49.4  |
| SPECIFIC GRAVITY OF SOLIDS | 2.65  |
| VOID RATIO                 | 1.27  |
| LIQUID LIMIT %             | 46.   |
| PLASTIC LIMIT %            | 28.   |
| PLASTICITY INDEX           | 1.8.  |
| LIQUIDITY INDEX            | 123.  |
| CARBONATE CARBON CONTENT % | .60   |
| ORGANIC CARBON CONTENT %   | .92   |
| SAND %                     | 13.4  |
| SILT %                     | 56.6  |
| CLAY %                     | 30.0  |
| ACTIVITY                   | .8    |
| MEDIAN DIAMETER (NM)       | .0172 |

| LATITUDE<br>INTERVAL<br>(IN) | LONGITUDE 119 42.38 W   |                                     |
|------------------------------|---|-------------------------------------|
|                              | WATER DEPTH<br>119 42.38 W<br>3- 6 6- 9<br>9-12 12-15 15-18 18-21 |                                     |
| COLOR (GSA NO.)              | 5Y3/2   | 10Y4/2 10Y4/2 10Y4/2 10Y4/2 10Y4/2  |
| HULK WFT DENSITY (PCF)       | 107.  | 107. 108. 108. 110. 106. 116.       |
| VANE SHEAR STRENGTH (PSF)    | 79.   | 155. 133. 151. 169. 85. 198.        |
| REMOLDED STRENGTH (PSF)      | 31.   | 64. 6. 39. 79. 31. 38.              |
| SENSITIVITY                  | 2.6   | 2.4 22.9 3.9 2.2 2.7 5.2            |
| ORIGINAL WATER CONTENT %     | 51.8  | 52.1 52.6 52.4 47.7 55.2 39.8       |
| SPECIFIC GRAVITY OF SOLIDS   | 2.58  | 2.56 2.62 2.59 2.62 2.61 2.65       |
| VOID RATIO                   | 1.28  | 1.28 1.31 1.29 1.20 1.38 .99        |
| LIQUID LIMIT %               | 39.   | 44. 44. 43. 41. 44. *               |
| PLASTIC LIMIT %              | 37.   | 33. 35. 33. 33. 35. *               |
| PLASTICITY INDEX             | 2.  | 11. 9. 10. 8. 9. *                  |
| LIQUIDITY INDEX              | 54.1  | 164. 192. 202. 172. 223. *          |
| CARBONATE CARBON CONTENT %   | 1.34  | 2.04 3.20 3.22 3.76 3.16 5.38       |
| ORGANIC CARBON CONTENT %     | 1.06  | 1.15 .99 .91 .89 1.02 .63           |
| SAND %                       | 57.0  | 47.0 46.5 48.4 50.0 48.0 71.0       |
| SILT %                       | 28.6  | 31.4 29.5 28.7 27.0 29.6 15.8       |
| CLAY %                       | 14.4  | 21.6 24.0 22.9 23.0 22.4 13.2       |
| ACTIVITY                     | 0.2   | 0.7 0.5 0.5 0.5 0.5 0.5             |
| MEDIAN DIAMETER (MM)         | .0550   | .0467 .0455 .0480 .0500 .0480 .0840 |

LATITUDE 34° 6.42' N      LONGITUDE 119° 41.96' W      WATER DEPTH 98.0 FM  
 INTERVAL (IN)      0- 3    3- 6    6- 9    9-12    12-15

| COLOR (GSA NO.)            | 5Y3/2 | 5Y3/2 | 5Y3/2 | 5Y3/2 | 5Y3/2 |
|----------------------------|-------|-------|-------|-------|-------|
| BULK WET DENSITY (PCF)     | 107.  | 110.  | 112.  | 112.  | 109.  |
| VANE SHEAR STRENGTH (PSF)  | 53.   | 129.  | 134.  | 138.  | 259.  |
| REMOLDED STRENGTH (PSF)    | 19.   | 53.   | 77.   | 102.  | 119.  |
| SENSITIVITY                | 2.8   | 2.4   | 1.7   | 1.4   | 2.1   |
| ORIGINAL WATER CONTENT %   | 51.6  | 48.8  | 46.3  | 46.8  | 47.4  |
| SPECIFIC GRAVITY OF SOLIDS | 2.60  | 2.59  | 2.60  | 2.60  | 2.62  |
| VOID RATIO                 | 1.30  | 1.19  | 1.13  | 1.13  | 1.20  |
| LIQUID LIMIT %             | 36.   | 39.   | 40.   | 41.   | 41.   |
| PLASTIC LIMIT %            | •     | 35.   | 36.   | 35.   | 35.   |
| PLASTICITY INDEX           | •     | 4.    | 4.    | 6.    | 6.    |
| LIQUIDITY INDEX            | •     | 381.  | 254.  | 198.  | 208.  |
| CARBONATE CARBON CONTENT % | • 94  | 1.33  | 2.69  | 3.00  | 2.98  |
| ORGANIC CARBON CONTENT %   | • 93  | 1.12  | 1.02  | 0.87  | 1.03  |
| SAND %                     | 61.5  | 56.0  | 51.0  | 53.0  | 51.0  |
| SILT %                     | 24.9  | 26.5  | 28.0  | 28.2  | 28.3  |
| CLAY %                     | 13.6  | 17.5  | 21.0  | 18.8  | 20.7  |
| ACTIVITY                   | • 0   | 0.3   | 0.2   | 0.4   | 0.3   |
| MEDIAN DIAMETER (NM)       | .0580 | .0550 | .0520 | .0540 | .0510 |

LATITUDE 34° 14.85' N  
INTERVAL (IN)

| COLOR (GSA NO.)            | 5Y3/2 | 5Y3/2 | 5Y3/2 | 5Y3/2 | 5Y3/2 | 5Y3/2 |
|----------------------------|-------|-------|-------|-------|-------|-------|
| BULK WET DENSITY (PCF)     | 95.   | 103.  | 107.  | 110.  | 112.  | 110.  |
| VANE SHEAR STRENGTH (PSF)  | 51.   | 47.   | 62.   | 92.   | 113.  | 105.  |
| REMOLDED STRENGTH (PSF)    | 16.   | 20.   | 31.   | 26.   | 32.   | 49.   |
| SENSITIVITY                | 3.2   | 2.4   | 2.0   | 3.5   | 3.6   | 2.1   |
| ORIGINAL WATER CONTENT-%   | 75.6  | 66.0  | 55.9  | 47.6  | 44.8  | 48.9  |
| SPECIFIC GRAVITY OF SOLIDS | 2.52  | 2.52  | 2.54  | 2.55  | 2.56  | 2.55  |
| VOID RATIO                 | 1.90  | 1.54  | 1.32  | 1.14  | 1.06  | 1.16  |
| LIQUID LIMIT %             | 54.   | 47.   | 41.   | 35.   | 34.   | 38.   |
| PLASTIC LIMIT %            | 23.   | 30.   | 28.   | 29.   | 27.   | 30.   |
| PLASTICITY INDEX           | 31.   | 17.   | 13.   | 6.    | 7.    | 8.    |
| LIQUIDITY INDEX            | 172.  | 211.  | 207.  | 284.  | 270.  | 233.  |
| CARBONATE CARBON CONTENT % | .59   | .41   | .27   | .22   | .25   | .35   |
| ORGANIC CARBON CONTENT %   | 1.46  | 1.25  | 1.30  | .90   | .75   | .95   |
| SAND %                     | 19.5  | 28.3  | 25.4  | 32.0  | 31.0  | 32.0  |
| SILT %                     | 46.1  | 43.1  | 46.0  | 46.7  | 47.4  | 46.2  |
| CLAY %                     | 34.4  | 28.6  | 28.6  | 21.3  | 21.6  | 21.8  |
| ACTIVITY                   | 1.3   | .9    | .7    | .4    | .4    | .5    |
| MEDIAN DIAMETER            | .0150 | .0220 | .0215 | .0340 | .0335 | .0350 |
|                            |       |       |       |       |       | .0284 |

BUREC NO. 37, P. 2

\*\*\*\*\* CORE NO SCN1 - 32 \*\*\*\*\*

LATITUDE 34° 14.85' N  
INTERVAL (IN) 21-24 24-27 27-30 30-33 33-36

LONGITUDE 119° 40.78' W

WATER DEPTH 102. FM

| COLOR (GSA NO.)            | 5Y3/2  | 5Y3/2  | 5Y3/2  | 5Y3/2  | 5Y3/2  |
|----------------------------|--------|--------|--------|--------|--------|
| BULK WET DENSITY (PCF)     | 116.   | 116.   | 116.   | 115.   | 117.   |
| VAN V SHEAR STRENGTH (PSF) | 115.   | 155.   | 140.   | 145.   | 101.   |
| REMOLEDED STRENGTH (PSF)   | 62.    | 68.    | 74.    | 59.    | 72.    |
| SENSITIVITY                | 1.9    | 2.3    | 1.9    | 2.5    | 1.4    |
| ORIGINAL WATER CONTENT %   | 40.3   | 39.7   | 40.1   | 40.5   | 39.2   |
| SPECIFIC GRAVITY OF SOLIDS | 2.57   | 2.55   | 2.57   | 2.57   | 2.56   |
| VOID RATIO                 | .95    | .92    | .94    | .95    | .99    |
| LIQUID LIMIT %             | 32.    | 33.    | 32.    | 34.    | 33.    |
| PLASTIC LIMIT %            | .      | 30.    | 28.    | 29.    | 30.    |
| PLASTICITY INDEX           | .      | 3.     | 4.     | 5.     | 3.     |
| LIQUDITY INDEX             | .      | 306.   | 301.   | 273.   | 338.   |
| CARBONATE CARBON CONTENT % | .23    | .31    | .40    | .33    | .44    |
| ORGANIC CARBON CONTENT %   | .79    | .84    | .75    | .78    | .75    |
| SAND %                     | 42.8   | 43.0   | 41.0   | 36.0   | 36.8   |
| SILT %                     | 40.5   | 42.2   | 42.8   | 44.5   | 45.0   |
| CLAY %                     | 16.7   | 14.8   | 16.2   | 19.5   | 18.2   |
| ACTIVITY                   | 0.0    | 0.3    | 0.3    | 0.4    | 0.2    |
| MEDIAN DIAMETER (MM)       | 0.0462 | 0.0470 | 0.0455 | 0.0423 | 0.0438 |

LATITUDE 34° 14.93' N      LONGITUDE 119° 40.58' W      WATER DEPTH 101. FM  
 INTERVAL (IN)                  0- 3    3- 6    6- 9    9-12    12-15    15-18    18-21

| COLOR (GSA NO.)            | 5Y3/2 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|
| RULK WET DENSITY (PCF)     | 93.   | 97.   | 101.  | 108.  | 108.  | 108.  | 110.  |
| VANE SHEAR STRENGTH (PSF)  | 21.   | 52.   | 58.   | 80.   | 95.   | 84.   | 80.   |
| REMOLDED STRENGTH (PSF)    | 9.    | 16.   | 23.   | 27.   | 34.   | 32.   | 38.   |
| SENSITIVITY                | 2.4   | 2.6   | 2.6   | 2.9   | 2.8   | 2.6   | 2.1   |
| ORIGINAL WATER CONTENT-%   | 95.7  | 83.3  | 65.3  | 50.8  | 51.3  | 50.5  | 48.9  |
| SPECIFIC GRAVITY OF SOLIDS | 2.51  | 2.52  | 2.54  | 2.56  | 2.57  | 2.56  | 2.57  |
| VOID RATIO                 | 2.29  | 1.98  | 1.59  | 1.23  | 1.24  | 1.22  | 1.16  |
| LIQUID LIMIT %             | 62.   | 58.   | 49.   | 39.   | 39.   | 38.   | 36.   |
| PLASTIC LIMIT %            | 32.   | 29.   | 28.   | 27.   | 27.   | 29.   | 28.   |
| PLASTICITY INDEX           | 30.   | 29.   | 21.   | 12.   | 12.   | 9.    | 8.    |
| LIQUIDITY INDEX            | 20.8  | 18.7  | 17.8  | 20.6  | 20.1  | 24.0  | 27.8. |
| CARBONATE CARBON CONTENT % | .45   | .61   | .25   | .28   | .33   | .31   | .29   |
| ORGANIC CARBON CONTENT %   | 1.56  | 1.52  | 1.27  | 1.02  | .98   | 1.01  | .90   |
| SAND %                     | 13.0  | 17.0  | 18.8  | 31.0  | 27.8  | 35.8  | 36.8  |
| SILT %                     | 45.8  | 43.5  | 49.5  | 46.8  | 46.6  | 42.5  | 40.8  |
| CLAY %                     | 41.2  | 39.5  | 31.7  | 22.2  | 25.6  | 21.7  | 22.4  |
| ACTIVITY                   | 1.1   | 1.0   | 0.9   | 0.7   | 0.6   | 0.5   | 0.5   |
| MEDIAN DIAMETER (MM)       | .0090 | .0101 | .0152 | .0340 | .0295 | .0400 | .0430 |

BUREC-NO. 38, p. 2

CORE NO. SCNI - 33 \*\*\*\*

LATITUDE 34° 14.93' N LONGITUDE 119° 40.58' W WATER DEPTH 101. FM  
INTERVAL (IN) 21-24 24-27 27-30 30-33 33-36

| COLOR (GSA NO.)            | 5Y3/2 | 5Y3/2 | 5Y3/2 | 5Y3/2 | 5Y3/2 |
|----------------------------|-------|-------|-------|-------|-------|
| RULK WET DENSITY (PCF)     | 117.  | 116.  | 116.  | 116.  | 113.  |
| VANE SHEAR STRENGTH (PSF)  | 150.  | 107.  | 80.   | 81.   | 118.  |
| REMOLDED STRENGTH (PSF)    | 61.   | 53.   | 64.   | 59.   | 59.   |
| SENSITIVITY                | 2.5   | 2.0   | 1.2   | 1.4   | 2.0   |
| ORIGINAL WATER CONTENT %   | 35.6  | 38.6  | 39.2  | 38.6  | 43.1  |
| SPECIFIC GRAVITY OF SOLIDS | 2.60  | 2.58  | 2.58  | 2.58  | 2.59  |
| VOID RATIO                 | .88   | .92   | .94   | .93   | 1.05  |
| LIQUID LIMIT %             | 30.   | 31.   | 33.   | 33.   | 36.   |
| PLASTIC LIMIT %            | .     | .     | 29.   | 28.   | 28.   |
| PLASTICITY INDEX           | .     | .     | 4.    | 5.    | R.    |
| LIQUINITY INDEX            | .     | .     | 245.  | 209.  | 194.  |
| CARBONATE CARBON CONTENT % | .47   | .40   | .32   | .28   | .24   |
| ORGANIC CARBON CONTENT %   | .59   | .67   | .75   | .72   | .84   |
| SAND %                     | 45.0  | 46.0  | 36.5  | 43.5  | 31.0  |
| SILT %                     | 40.3  | 40.0  | 45.2  | 37.5  | 45.8  |
| CLAY %                     | 14.7  | 14.0  | 18.3  | 19.0  | 23.2  |
| ACTIVITY                   | 0.0   | 0.0   | 0.3   | 0.3   | 0.5   |
| MEDIAN DIAMETER (MM)       | .0478 | .0480 | .0422 | .0460 | .0341 |

BUREC NO. 39

\*\*\*\*\* CORE NO SCNI - 30 \*\*\*\*\*

LATITUDE 34° 14.03' N  
INTERVAL (IN)

|                            | LONGITUDE |       | WATER DEPTH |       | 98. FM |       |
|----------------------------|-----------|-------|-------------|-------|--------|-------|
|                            | 0- 3      | 3- 6  | 6- 9        | 9-12  | 12-15  | 15-18 |
| COLOR (GSA NO.)            | 5Y4/1     | 5Y4/1 | 5Y4/1       | 5Y4/1 | 5Y4/1  | 5Y4/1 |
| BULK WET DENSITY (PCF)     | 88.       | 102.  | 107.        | 114.  | 116.   | 117.  |
| VANE SHEAR STRENGTH (PSF)  | 2.        | 36.   | 53.         | 81.   | 144.   | 112.  |
| REMOLDED STRENGTH (PSF)    | .         | 15.   | 15.         | 40.   | 67.    | 81.   |
| SENSITIVITY                | .         | 2.4   | 3.5         | 2.0   | 2.1    | 1.4   |
| ORIGINAL WATER CONTENT %   | 119.8     | 66.2  | 54.6        | 39.3  | 36.5   | 36.5  |
| SPECIFIC GRAVITY OF SOLIDS | 2.52      | 2.53  | 2.55        | 2.57  | 2.57   | 2.57  |
| VOID RATIO                 | 2.92      | 1.59  | 1.30        | 0.95  | 0.88   | 0.88  |
| LIQUID LIMIT %             | 62.       | 46.   | 38.         | 31.   | 31.    | 30.   |
| PLASTIC LIMIT %            | 33.       | 26.   | 27.         | •     | •      | •     |
| PLASTICITY INDEX           | 29.       | 20.   | 11.         | •     | •      | •     |
| LIQUIDITY INDEX            | 296.      | 197.  | 258.        | •     | •      | •     |
| CARBONATE CARBON CONTENT % | •50       | •37   | •37         | •41   | •24    | •33   |
| ORGANIC CARBON CONTENT %   | 1.37      | 1.14  | 0.95        | 0.61  | 0.65   | 0.64  |
| SAND %                     | 14.2      | 13.1  | 38.0        | 51.0  | 51.0   | 53.0  |
| SILT %                     | 31.2      | 36.3  | 34.0        | 32.8  | 33.0   | 30.8  |
| CLAY %                     | 54.6      | 32.7  | 28.0        | 16.2  | 16.0   | 16.2  |
| ACTIVITY                   | •7        | •7    | •5          | 0.0   | 0.0    | 0.0   |
| MEDIAN DIAMETER (MM)       | •0099     | •0194 | •0375       | •0510 | •0520  |       |

| LATITUDE                   | 34° 14.12' N | LONGITUDE | 119° 39.01' W | WATER DEPTH | 97° FM |        |        |
|----------------------------|--------------|-----------|---------------|-------------|--------|--------|--------|
| INTERVAL (IN)              | 0- 3         | 3- 6      | 6- 9          | 9-12        | 12-15  | 15-18  | 18-21  |
| COLOR (GSA NO.)            | 10Y4/2       | 10Y4/2    | 10Y4/2        | 10Y4/2      | 10Y4/2 | 10Y4/2 | 10Y4/2 |
| BULK WET DENSITY (PCF)     | 101.         | 109.      | 113.          | 116.        | 114.   | 113.   | 116.   |
| VANE SHEAR STRENGTH (PSF)  | 25.          | 41.       | 66.           | 85.         | 81.    | 106.   | 142.   |
| REMOLDED STRENGTH (PSF)    | 7.           | 13.       | 30.           | 30.         | 136.   | 54.    | 125.   |
| SENSITIVITY                | 3.4          | 3.2       | 2.2           | 2.9         | •6     | 2.0    | 1.1    |
| ORIGINAL WATER CONTENT %   | 64.0         | 48.4      | 38.9          | 37.8        | 40.2   | 41.9   | 38.8   |
| SPECIFIC GRAVITY OF SOLIDS | 2.55         | 2.57      | 2.56          | 2.56        | 2.58   | 2.57   | 2.58   |
| VOID RATIO                 | 1.58         | 1.18      | 0.96          | 0.90        | 0.97   | 1.01   | 0.94   |
| LIQUID LIMIT %             | 40.          | 34.       | 31.           | 30.         | 31.    | 36.    | 36.    |
| PLASTIC LIMIT %            | 27.          | •         | 29.           | •           | •      | 27.    | 26.    |
| PLASTICITY INDEX           | 13.          | •         | 2.            | •           | •      | 9.     | 10.    |
| LIQUIDITY INDEX            | 297.         | •         | 539.          | •           | •      | 164.   | 129.   |
| CARBONATE CARBON CONTENT % | •52          | •34       | •08           | •24         | •24    | •48    | •43    |
| ORGANIC CARBON CONTENT %   | •98          | •73       | •69           | •68         | •65    | •72    | •69    |
| SAND %                     | 39.0         | 44.5      | 53.0          | 53.5        | 51.0   | 33.4   | 29.0   |
| SILT %                     | 32.6         | 36.4      | 31.6          | 32.8        | 33.2   | 43.8   | 46.9   |
| CLAY %                     | 28.4         | 19.1      | 15.4          | 13.7        | 15.8   | 22.8   | 24.1   |
| ACTIVITY                   | •7           | 0.0       | •2            | 0.0         | 0.0    | •5     | •5     |
| MEDIAN DIAMETER (MM)       | •0362        | •0453     | •0520         | •0520       | •0510  | •0338  | •0313  |

LATITUDE 34° 14.12' N      LONGITUDE 119° 39.01' W      WATER DEPTH 97. FM  
 INTERVAL (IN)      21-24      24-27      27-30

|                            |        |        |        |
|----------------------------|--------|--------|--------|
| COLOR (GSA NO.)            | 10Y4/2 | 10Y4/2 | 10Y4/2 |
| BULK WET DENSITY (PCF)     | 114.   | 113.   | 112.   |
| VANE SHEAR STRENGTH (PSF)  | 159.   | 196.   | 216.   |
| REMOLDED STRENGTH (PSF)    | 110.   | 145.   | 118.   |
| SENSITIVITY                | 1.5    | 1.3    | 1.8    |
| ORIGINAL WATER CONTENT %   | 39.5   | 41.2   | 45.6   |
| SPECIFIC GRAVITY OF SOLIDS | 2.59   | 2.59   | 2.56   |
| VOID RATIO                 | .98    | 1.02   | 1.08   |
| LIQUID LIMIT %             | 36.    | 39.    | 45.    |
| PLASTIC LIMIT %            | 26.    | 26.    | 27.    |
| PLASTICITY INDEX           | 10.    | 13.    | 18.    |
| LIQUIDITY INDEX            | 133.   | 114.   | 106.   |
| CARBONATE CARBON CONTENT % | .57    | .52    | .60    |
| ORGANIC CARBON CONTENT %   | .66    | .77    | .71    |
| SAND %                     | 29.4   | 20.0   | 16.0   |
| SIL %                      | 46.6   | 52.0   | 53.0   |
| CLAY %                     | 24.0   | 28.0   | 31.0   |
| ACTIVITY                   | .5     | .6     | .6     |
| MEDIAN DIAMETER (MM)       | .0336  | .0220  | .0151  |

BUREC NO. 41

\*\*\*\*\* CORE NO - SCNI - 14 \*\*\*\*\*

|                            |       |
|----------------------------|-------|
| INTERVAL (IN)              | 0- 3  |
| CARBONATE-CARBON CONTENT % | .14   |
| ORGANIC CARBON CONTENT %   | .30   |
| SAND %                     | 59.3  |
| SILT %                     | 25.1  |
| CLAY %                     | 15.6  |
| ACTIVITY                   | .0    |
| MEDIAN DIAMETER (MM)       | .0870 |

BUREC NO. 42

\*\*\*\*\* CORE NO SCNI - 2 \*\*\*\*\*

LATITUDE 34° 6.00 N      LONGITUDE 119° 39.10 W      WATER DEPTH 96.0 FM  
INTERVAL (IN)      0 - 3      12-15

|                                 |   |       |       |
|---------------------------------|---|-------|-------|
| COLOR (GSA NO.)                 |   | 5Y4/4 | 5Y4/4 |
| BULK WET DENSITY (PCF)          |   | 111.  | 115.  |
| VANF SHEAR STRENGTH (PSF)       |   | 102.  | 152.  |
| REMOLDED STRENGTH (PSF)         |   | 15.   | 100.  |
| SENSITIVITY                     | % | 6.7   | 1.5   |
| ORIGINAL WATER CONTENT          | % | 42.2  | 38.4  |
| SPECIFIC GRAVITY OF SOLIDS      |   | 2.56  | 2.59  |
| VOID RATIO                      |   | 1.05  | .95   |
| LIQUID LIMIT %                  |   | .     | .     |
| PLASTIC LIMIT %                 |   | .     | .     |
| PLASTICITY INDEX                |   | .     | .     |
| LIQUIDITY INDEX                 |   | .     | .     |
| CARBONATE CARBON CONTENT %      |   | 2.22  | 4.91  |
| ORGANIC CARBON CONTENT % (SAND) |   | .92   | .67   |
| SIL1 %                          | % | 71.7  | 78.5  |
| SIL1 %                          | % | 16.5  | 11.7  |
| CLAY ACTIVITY                   | % | 11.8  | 9.8   |
| MEDIAN DIAMETER (MM)            |   | .0    | .0    |
|                                 |   | .0800 | .0930 |

## REMARKS \*\*\*

THIS CORE WAS TAKEN FROM THE AREA 5 MILES NORTH OF SANTA CRUZ ISLAND.

21°  
N

BUREC NO. 43

\*\*\*\*\* CORE NO SCNI - 6 \*\*\*\*\*

LATITUDE 34° 6.15' N LONGITUDE 119° 37.30' W WATER DEPTH - 109. FM  
INTERVAL (IN) 0- 3

|                            |       |
|----------------------------|-------|
| COLOR (GSA NO.)            | 5Y3/2 |
| BULK WT DENSITY (PCF)      | 102.  |
| VANE SHEAR STRENGTH (PSF)  | 86.   |
| REMOLDED STRENGTH (PSF)    | 31.   |
| SENSITIVITY                | 2.8   |
| ORIGINAL WATER CONTENT %   | 54.8  |
| SPECIFIC GRAVITY OF SOLIDS | 2.58  |
| VOID RATIO                 | 1.43  |
| LIQUID LIMIT %             | 43.   |
| PLASTIC LIMIT %            | 26.   |
| PLASTICITY INDEX           | 17.   |
| Liquidity Index            | 1.68. |
| CARBONATE CARBON CONTENT % | 1.14  |
| ORGANIC CARBON CONTENT %   | 1.19  |
| SAND %                     | 41.0  |
| SILT %                     | 40.2  |
| CLAY %                     | 18.8  |
| ACTIVITY                   | 1.1   |
| MEDIAN DIAMETER (MM)       | .0560 |

BUREAU NO. 44

\*\*\*\*\* CORE NO. SCNI - 7\*\*\*\*\*

LATITUDE 34° 6.85' N LONGITUDE 119° 37.18' W WATER DEPTH 100. FM  
INTERVAL (IN) 0- 3 3- 6 6- 9 9-12 12-15 15-18

|                            |       |       |        |        |        |        |
|----------------------------|-------|-------|--------|--------|--------|--------|
| COLOR (GSA NO.)            | 5Y3/2 | 5Y3/2 | 10Y4/2 | 10Y4/2 | 10Y4/2 | 10Y4/2 |
| BULK WET DENSITY (PCF)     | 106.  | 109.  | 108.   | 109.   | 113.   | 115.   |
| VANF SHEAR STRENGTH (PSF)  | 70.   | 80.   | 108.   | 142.   | 240.   | 285.   |
| REMOLDED STRENGTH (PSF)    | 16.   | 32.   | 29.    | 34.    | 111.   | 52.    |
| SENSITIVITY                | 4.4   | 2.5   | 3.8    | 4.1    | 2.2    | 5.5    |
| ORIGINAL WATER CONTENT %   | 50.2  | 48.8  | 51.5   | 50.5   | 41.2   | 38.1   |
| SPECIFIC GRAVITY OF SOLIDS | 2.58  | 2.59  | 2.59   | 2.60   | 2.63   | 2.64   |
| VOID RATIO                 | 1.28  | 1.21  | 1.28   | 1.24   | 1.05   | .98    |
| LIQUID LIMIT %             | 35.   | 37.   | 38.    | 37.    | 36.    | .      |
| PLASTIC LIMIT %            | .     | .     | .      | .      | .      | .      |
| PLASTICITY INDEX           | .     | .     | .      | .      | .      | .      |
| LIQUIDITY INDEX            | .     | .     | .      | .      | .      | .      |
| CARBONATE CARBON CONTENT % | 1.28  | 1.61  | 1.95   | 3.02   | 3.80   | 3.87   |
| ORGANIC CARBON CONTENT %   | .93   | 1.04  | .97    | .84    | .72    | .61    |
| SAND %                     | 62.0  | 59.0  | 54.0   | 57.4   | 58.4   | 70.0   |
| SILT %                     | 19.1  | 24.6  | 26.0   | 22.2   | 21.7   | 18.6   |
| CLAY %                     | 18.9  | 16.4  | 20.0   | 20.4   | 19.9   | 11.4   |
| ACTIVITY                   | .0    | .0    | .0     | .0     | .0     | .0     |
| MEDIAN DIAMETER (MM)       | .0640 | .0570 | .0560  | .0590  | .0620  | .0740  |

BUREC NO. 45

\*\*\*\*\* CORE NO. SC-3

LATITUDE 34° 06.0  
INTERVAL (IN)

|   | LONGITUDE<br>0-3 | 119°<br>12-15 | 38.2<br>24-27 | WATER DEPTH<br>36-39 | 183 m<br>48-51 |
|---|------------------|---------------|---------------|----------------------|----------------|
| COLOR (GSA NO.)                           | 10Y4/2           | 10Y4/2        | 10Y4/2        | 5Y5/2                | 5Y5/2          |
| BULK WET DENSITY (gm/cc)                  | -                | 1.774         | 1.840         | 1.893                | 1.863          |
| VANE SHEAR STRENGTH (gm/cm <sup>2</sup> ) | -                | 77.4          | 98.8          | 138.4                | 507.3          |
| REMOLDED STRENGTH (gm/cm <sup>2</sup> )   | -                | 26.9          | 25.2          | 40.9                 | 83.3           |
| SENSITIVITY                               | -                | 2.9           | 3.9           | 3.4                  | 6.1            |
| ORIGINAL WATER CONTENT (%)                | 198.1            | 43.0          | 37.5          | 33.0                 | 30.8           |
| SPECIFIC GRAVITY OF SOLIDS                | 2.717            | 2.686         | 2.738         | 2.749                | 2.752          |
| VOID RATIO                                | -                | 1.165         | 1.045         | 0.930                | 0.934          |
| LIQUID LIMIT                              | 93.5             | 36.5          | NP            | NP                   | NP             |
| PLASTIC LIMIT                             | 38.6             | NP            | NP            | NP                   | NP             |
| PLASTICITY INDEX                          |                  |               |               |                      |                |
| LIQUIDITY INDEX                           |                  |               |               |                      |                |
| SAND (%)                                  | 3.5              | 67.3          | 76.4          | 91.6                 | 92.9           |
| SILT (%)                                  | 48.8             | 20.3          | 14.0          | 4.5                  | 3.6            |
| CLAY (%)                                  | 47.7             | 12.4          | 9.6           | 3.9                  | 3.5            |
| ACTIVITY                                  |                  |               |               |                      |                |
| MEDIAN DIAMETER (MM)                      | 0.0056           | 0.0710        | 0.0730        | 0.2300               | 0.2700         |

KEY: - LAB TEST NOT CONDUCTED

\* LAB TEST CONDUCTED, DATA NOT REDUCED

BUREC NO. 46

\*\*\*\*\* CORE NO. SC-4

LATITUDE 34° 06.0  
INTERVAL (IN) 0-3 12-15 24-27 36-39

LONGITUDE 119° 37.9

WATER DEPTH 188 m

| COLOR (GSA NO.)                           | 10Y6/2 | 10Y4/2 | 5GY6/1 | 5GY6/1 |
|---|--------|--------|--------|--------|
| BULK WET DENSITY (gm/cc)                  | *      | *      | -      | -      |
| VANE SHEAR STRENGTH (gm/cm <sup>2</sup> ) | *      | *      | -      | -      |
| REMOLDED STRENGTH (gm/cm <sup>2</sup> )   | *      | *      | -      | -      |
| SENSITIVITY                               | *      | *      | -      | -      |
| ORIGINAL WATER CONTENT (%)                | *      | *      | 25.4   | *      |
| SPECIFIC GRAVITY OF SOLIDS                | 2.667  | 2.736  | 2.744  | 2.746  |
| VOID RATIO                                | *      | *      | -      | -      |
| LIQUID LIMIT                              | NP     | NP     | NP     | NP     |
| PLASTIC LIMIT                             | NP     | NP     | NP     | NP     |
| PLASTICITY INDEX                          |        |        |        |        |
| LIQUIDITY INDEX                           |        |        |        |        |
| SAND (%)                                  | 75.4   | 72.0   | 92.8   | 94.4   |
| SILT (%)                                  | 14.4   | 17.1   | 3.0    | 2.0    |
| CLAY (%)                                  | 10.2   | 10.9   | 4.2    | 3.6    |
| ACTIVITY                                  |        |        |        |        |
| MEDIAN DIAMETER (MM)                      | 0.0840 | 0.0800 | 0.2850 | 0.5700 |

KEY: - LAB TEST NOT CONDUCTED

\* LAB TEST CONDUCTED, DATA NOT REDUCED

BUREC NO. 47

\*\*\*\*\* CORE NO. SC-5

LATITUDE  $34^{\circ}$  05.8  
INTERVAL (IN)

|   | LONGITUDE     | WATER DEPTH |
|---|---------------|-------------|
| COLOR (GSA NO.)                           | $119^{\circ}$ | 182 m       |
| BULK WET DENSITY (gm/cc)                  | 37.9          |             |
| VANE SHEAR STRENGTH (gm/cm <sup>2</sup> ) | 0-3           |             |
| REMOLDED STRENGTH (gm/cm <sup>2</sup> )   | 12-15         |             |
| SENSITIVITY                               |               |             |
| ORIGINAL WATER CONTENT (%)                | 5Y3/2 *       | 10Y4/2 *    |
| SPECIFIC GRAVITY OF SOLIDS                | *             | *           |
| VOID RATIO                                | 2.714 *       | 2.724 *     |
| LIQUID LIMIT                              | NP            | NP          |
| PLASTIC LIMIT                             | NP            | NP          |
| PLASTICITY INDEX                          |               |             |
| LIQUIDITY INDEX                           |               |             |
| SAND (%)                                  | 50.0          | 70.9        |
| SILT (%)                                  | 36.4          | 18.5        |
| CLAY (%)                                  | 13.6          | 10.6        |
| ACTIVITY                                  |               |             |
| MEDIAN DIAMETER (MM)                      | 0.0600        | 0.0700      |

KEY: - LAB TEST NOT CONDUCTED

\* LAB TEST CONDUCTED, DATA NOT REDUCED

BUREC NO. 48

\*\*\*\*\* CORE NO. SC-6

LATITUDE  $34^{\circ}$  05.9  
INTERVAL (IN) 12-15

WATER DEPTH 179 m

|  |        |        |
|--|--------|--------|
| COLOR (GSA NO.)                          | 10Y4/2 | 10Y4/2 |
| BULK WET DENSITY (gm/cc)                 | *      | *      |
| VANE SHEAR STRENGTH ( $\text{gm/cm}^2$ ) | *      | *      |
| REMOLDED STRENGTH ( $\text{gm/cm}^2$ )   | *      | *      |
| SENSITIVITY                              | *      | *      |
| ORIGINAL WATER CONTENT (%)               | *      | *      |
| SPECIFIC GRAVITY OF SOLIDS               | 2.676  | 2.740  |
| VOID RATIO                               | *      | *      |
| LIQUID LIMIT                             | NP     | NP     |
| PLASTIC LIMIT                            | NP     | NP     |
| PLASTICITY INDEX                         |        |        |
| LIQUIDITY INDEX                          |        |        |
| SAND (%)                                 | 68.0   | 76.1   |
| SILT (%)                                 | 20.0   | 16.4   |
| CLAY (%)                                 | 12.0   | 7.5    |
| ACTIVITY                                 |        |        |
| MEDIAN DIAMETER (MM)                     | 0.0660 | 0.0850 |

KEY: - LAB TEST NOT CONDUCTED

\* LAB TEST CONDUCTED, DATA NOT REDUCED

BUREC NO. 49

\*\*\*\*\* CORE NO. SC-7

LATITUDE  $34^{\circ}$  06.4  
INTERVAL (IN) 0-3 12-15 24-27

WATER DEPTH 203 m

|   | LONGITUDE | 119 $^{\circ}$ 36.7 | WATER DEPTH | 203 m |
|---|-----------|---------------------|-------------|-------|
| COLOR (GSA NO.)                           | 10Y4/2    | 10Y4/2              | 10Y4/2      | *     |
| BULK WET DENSITY (gm/cc)                  | *         | *                   | *           | *     |
| VANE SHEAR STRENGTH (gm/cm <sup>2</sup> ) | *         | *                   | *           | *     |
| REMOLDED STRENGTH (gm/cm <sup>2</sup> )   | *         | *                   | *           | *     |
| SENSITIVITY                               | *         | *                   | *           | *     |
| ORIGINAL WATER CONTENT (%)                | *         | *                   | *           | *     |
| SPECIFIC GRAVITY OF SOLIDS                | 2.670     | 2.739               | 2.749       | *     |
| VOID RATIO                                | *         | *                   | *           | *     |
| LIQUID LIMIT                              | NP        | NP                  | NP          | NP    |
| PLASTIC LIMIT                             | NP        | NP                  | NP          | NP    |
| PLASTICITY INDEX                          |           |                     |             |       |
| LIQUIDITY INDEX                           |           |                     |             |       |
| SAND (%)                                  | 59.0      | 60.4                | 75.0        |       |
| SILT (%)                                  | 24.3      | 23.6                | 17.3        |       |
| CLAY (%)                                  | 16.7      | 16.0                | 7.7         |       |
| ACTIVITY                                  |           |                     |             |       |
| MEDIAN DIAMETER (MM)                      | 0.0580    | 0.0680              | 0.0900      |       |

KEY: - LAB TEST NOT CONDUCTED

\* LAB TEST CONDUCTED, DATA NOT REDUCED

BUREC NO. 50

\*\*\*\*\* CORE NO. SC-8

LATITUDE  $34^{\circ}$  06.4  
INTERVAL (IN)

|   | LONGITUDE<br>0-3 | 119 $^{\circ}$<br>12-15 | 37.2   |
|---|------------------|-------------------------|--------|
| COLOR (GSA NO.)                           |                  |                         | 5Y4/4  |
| BULK WET DENSITY (gm/cc)                  | *                | *                       | 10Y4/2 |
| VANE SHEAR STRENGTH (gm/cm <sup>2</sup> ) | *                | *                       | *      |
| REMOLDED STRENGTH (gm/cm)                 | *                | *                       | *      |
| SENSITIVITY                               | *                | *                       | *      |
| ORIGINAL WATER CONTENT (%)                | *                | *                       | *      |
| SPECIFIC GRAVITY OF SOLIDS                | 2.711            | 2.708                   | *      |
| VOID RATIO                                | *                | *                       | *      |
| LIQUID LIMIT                              | NP               | NP                      | NP     |
| PLASTIC LIMIT                             | NP               | NP                      | NP     |
| PLASTICITY INDEX                          |                  |                         |        |
| LIQUIDITY INDEX                           |                  |                         |        |
| SAND (%)                                  | 65.2             | 70.0                    |        |
| SILT (%)                                  | 23.2             | 17.9                    |        |
| CLAY (%)                                  | 11.6             | 12.1                    |        |
| ACTIVITY                                  |                  |                         |        |
| MEDIAN DIAMETER (MM)                      | 0.0660           | 0.0740                  |        |

KEY: - LAB TEST NOT CONDUCTED

\* LAB TEST CONDUCTED, DATA NOT REDUCED

WATER DEPTH 187 m

BUREC NO. 51                                    \*\*\*\* \* CORE NO. SC-9  
 LATITUDE 34° 06.0                            LONGITUDE 119° 37.7  
 INTERVAL (IN)                                0-3      12-15

|   |        |        |
|---|--------|--------|
| COLOR (GSA NO.)                           | 10Y4/2 | 10Y6/2 |
| BULK WET DENSITY (gm/cc)                  | *      | -      |
| VANE SHEAR STRENGTH (gm/cm <sup>2</sup> ) | *      | -      |
| REMOLDED STRENGTH (gm/cm <sup>2</sup> )   | *      | -      |
| SENSITIVITY                               | *      | -      |
| ORIGINAL WATER CONTENT (%)                | *      | *      |
| SPECIFIC GRAVITY OF SOLIDS                | 2.691  | 2.758  |
| VOID RATIO                                | *      | -      |
| LIQUID LIMIT                              | NP     | NP     |
| PLASTIC LIMIT                             | NP     | NP     |
| PLASTICITY INDEX                          |        |        |
| LIQUIDITY INDEX                           |        |        |
| SAND (%)                                  | 69.9   | 90.9   |
| SILT (%)                                  | 17.6   | 5.0    |
| CLAY (%)                                  | 12.5   | 4.1    |
| ACTIVITY                                  |        |        |
| MEDIAN DIAMETER (MM)                      | 0.0700 | 0.2600 |

KEY: - LAB TEST NOT CONDUCTED

\* LAB TEST CONDUCTED, DATA NOT REDUCED

BUREC NO. 52

\*\*\*\*\* CORE NO. SC-10

LATITUDE 34° 05.8  
INTERVAL (IN) 0-3 12-15 24-27

|   | LONGITUDE | 119° 37.9 | WATER DEPTH | 180 m |
|---|-----------|-----------|-------------|-------|
| COLOR (GSA NO.)                           | 5Y3/2     | 10Y4/2    | 10Y6/2      | -     |
| BULK WET DENSITY (gm/cc)                  | *         | *         | *           | -     |
| VANE SHEAR STRENGTH (gm/cm <sup>2</sup> ) | *         | *         | *           | -     |
| REMOLDED STRENGTH (gm/cm <sup>2</sup> )   | *         | *         | *           | -     |
| SENSITIVITY                               | 4.0       | *         | *           | -     |
| ORIGINAL WATER CONTENT (%)                | *         | *         | *           | *     |
| SPECIFIC GRAVITY OF SOLIDS                | 2.670     | 2.722     | 2.718       | -     |
| VOID RATIO                                | *         | *         | *           | -     |
| LIQUID LIMIT                              | NP        | NP        | NP          | NP    |
| PLASTIC LIMIT                             | NP        | NP        | NP          | NP    |
| PLASTICITY INDEX                          |           |           |             |       |
| LIQUIDITY INDEX                           |           |           |             |       |
| SAND (%)                                  | 72.2      | 79.0      | 93.0        |       |
| SILT (%)                                  | 16.5      | 11.5      | 4.2         |       |
| CLAY (%)                                  | 11.3      | 9.5       | 2.8         |       |
| ACTIVITY                                  |           |           |             |       |
| MEDIAN DIAMETER (MM)                      | 0.0680    | 0.0880    | 0.2000      |       |

KEY: - LAB TEST NOT CONDUCTED

\* LAB TEST CONDUCTED, DATA NOT REDUCED

BUREC NO. 53

\*\*\*\*\* CORE NO. SC-11

LATITUDE 34° 05.8  
INTERVAL (IN)

LONGITUDE 119° 38.7  
0-3 12-15

WATER DEPTH 184 m

|   |        |        |
|---|--------|--------|
| COLOR (GSA NO.)                           | 10Y4/2 | 10Y4/2 |
| BULK WET DENSITY (gm/cc)                  | *      | *      |
| VANE SHEAR STRENGTH (gm/cm <sup>2</sup> ) | *      | *      |
| REMOLDED STRENGTH (gm/cm <sup>2</sup> )   | *      | *      |
| SENSITIVITY                               | *      | *      |
| ORIGINAL WATER CONTENT (%)                | *      | *      |
| SPECIFIC GRAVITY OF SOLIDS                | 2.714  | 2.732  |
| VOID RATIO                                | *      | *      |
| LIQUID LIMIT                              | NP     | NP     |
| PLASTIC LIMIT                             | NP     | NP     |
| PLASTICITY INDEX                          |        |        |
| LIQUIDITY INDEX                           |        |        |
| SAND (%)                                  | 72.1   | 65.7   |
| SILT (%)                                  | 17.6   | 17.8   |
| CLAY (%)                                  | 10.3   | 16.5   |
| ACTIVITY                                  |        |        |
| MEDIAN DIAMETER (MM)                      | 0.0730 | 0.0650 |

KEY: - LAB TEST NOT CONDUCTED

\* LAB TEST CONDUCTED, DATA NOT REDUCED

BUREC NO. 54

\*\*\*\*\* CORE NO. SC-12

LATITUDE 34° 05.7  
INTERVAL (IN)

|   | LONGITUDE<br>0-3 | 119°<br>12-15 | 38.3 | WATER DEPTH 189 m |
|---|------------------|---------------|------|-------------------|
| COLOR (GSA NO.)                           | 10Y4/2           | 10Y4/2        | *    |                   |
| BULK WET DENSITY (gm/cc)                  | *                | *             | *    |                   |
| VANE SHEAR STRENGTH (gm/cm <sup>2</sup> ) | *                | *             | *    |                   |
| REMOLDED STRENGTH (gm/cm <sup>2</sup> )   | *                | *             | *    |                   |
| SENSITIVITY                               | *                | *             | *    |                   |
| ORIGINAL WATER CONTENT (%)                | *                | *             | *    |                   |
| SPECIFIC GRAVITY OF SOLIDS                | 2.669            | 2.738         | *    |                   |
| VOID RATIO                                | *                | *             | *    |                   |
| LIQUID LIMIT                              | NP               | NP            | NP   |                   |
| PLASTIC LIMIT                             | NP               | NP            | NP   |                   |
| PLASTICITY INDEX                          |                  |               |      |                   |
| LIQUIDITY INDEX                           |                  |               |      |                   |
| SAND (%)                                  | 74.6             | 77.1          |      |                   |
| SILT (%)                                  | 13.6             | 11.9          |      |                   |
| CLAY (%)                                  | 13.4             | 11.0          |      |                   |
| ACTIVITY                                  |                  |               |      |                   |
| MEDIAN DIAMETER (MM)                      | 0.0670           | 0.0840        |      |                   |

KEY: - LAB TEST NOT CONDUCTED

\* LAB TEST CONDUCTED, DATA NOT REDUCED

| BUREC NO.                                 | 55       | ***** CORE NO. SC-13 |           |
|---|----------|----------------------|-----------|
| LATITUDE                                  | 34° 06.0 | LONGITUDE            | 119° 38.0 |
| INTERVAL (IN)                             |          | 0-3                  | 12-15     |
| WATER DEPTH                               | 180 m    |                      |           |
| COLOR (GSA NO.)                           |          | 10Y4/2               | 10Y4/2    |
| BULK WET DENSITY (gm/cc)                  |          | *                    | *         |
| VANE SHEAR STRENGTH (gm/cm <sup>2</sup> ) |          | *                    | *         |
| REMOLDED STRENGTH (gm/cm <sup>2</sup> )   |          | *                    | *         |
| SENSITIVITY                               |          | *                    | *         |
| ORIGINAL WATER CONTENT (%)                |          | *                    | *         |
| SPECIFIC GRAVITY OF SOLIDS                | 2.684    | 2.738                | *         |
| VOID RATIO                                |          | *                    | *         |
| LIQUID LIMIT                              | NP       | NP                   | NP        |
| PLASTIC LIMIT                             | NP       | NP                   | NP        |
| PLASTICITY INDEX                          |          |                      |           |
| LIQUIDITY INDEX                           |          |                      |           |
| SAND (%)                                  |          | 73.3                 | 78.3      |
| SILT (%)                                  |          | 14.3                 | 11.3      |
| CLAY (%)                                  |          | 12.4                 | 10.4      |
| ACTIVITY                                  |          |                      |           |
| MEDIAN DIAMETER (MM)                      | 0.0690   | 0.0760               |           |

KEY: - LAB TEST NOT CONDUCTED

\* LAB TEST CONDUCTED, DATA NOT REDUCED

BUREC NO. 56

\*\*\*\*\* CORE NO. SC-14

| LATITUDE<br>INTERVAL (IN) | 34° 05.6 | LONGITUDE<br>0-3 | 119° 38.1<br>12-15 | WATER DEPTH<br>24-27<br>36-39 | 174 m |
|---------------------------|----------|------------------|--------------------|-------------------------------|-------|
|---------------------------|----------|------------------|--------------------|-------------------------------|-------|

|   |        |        |        |        |        |
|---|--------|--------|--------|--------|--------|
| COLOR (GSA NO.)                           |        | 10Y4/2 | 10Y4/2 | 10Y4/2 | 10Y4/2 |
| BULK WET DENSITY (gm/cc)                  | *      | *      | *      | *      | *      |
| VANE SHEAR STRENGTH (gm/cm <sup>2</sup> ) | *      | *      | *      | *      | *      |
| REMOLDED STRENGTH (gm/cm <sup>2</sup> )   | -      | *      | *      | *      | -      |
| SENSITIVITY                               | -      | *      | *      | *      | -      |
| ORIGINAL WATER CONTENT (%)                | -      | *      | *      | *      | -      |
| SPECIFIC GRAVITY OF SOLIDS                | 2.723  | 2.701  | 2.740  | 2.741  | *      |
| VOID RATIO                                | *      | *      | *      | *      | *      |
| LIQUID LIMIT                              | NP     | NP     | NP     | NP     | NP     |
| PLASTIC LIMIT                             | NP     | NP     | NP     | NP     | NP     |
| PLASTICITY INDEX                          |        |        |        |        |        |
| LIQUIDITY INDEX                           |        |        |        |        |        |
| SAND (%)                                  | 73.9   | 70.8   | 77.8   | 77.8   |        |
| SILT (%)                                  | 15.7   | 17.7   | 14.3   | 13.4   |        |
| CLAY (%)                                  | 10.4   | 11.5   | 7.9    | 8.8    |        |
| ACTIVITY                                  |        |        |        |        |        |
| MEDIAN DIAMETER (MM)                      | 0.0670 | 0.0680 | 0.0970 | 0.0900 |        |

KEY: - LAB TEST NOT CONDUCTED

\* LAB TEST CONDUCTED, DATA NOT REDUCED

BUREC NO. 57

\*\*\*\*\* CORE NO. SC-16

LATITUDE  $34^{\circ}$  06.0  
INTERVAL (IN) 0-3

LONGITUDE  $119^{\circ}$  38.0

WATER DEPTH 196 m

|   |         |
|---|---------|
| COLOR (GSA NO.)                           | 5Y3/2 * |
| BULK WET DENSITY (gm/cc)                  | *       |
| VANE SHEAR STRENGTH (gm/cm <sup>2</sup> ) | *       |
| REMOLDED STRENGTH (gm/cm <sup>2</sup> )   | -       |
| SENSITIVITY                               | -       |
| ORIGINAL WATER CONTENT (%)                | *       |
| SPECIFIC GRAVITY OF SOLIDS                | 2.701 * |
| VOID RATIO                                | NP      |
| LIQUID LIMIT                              | NP      |
| PLASTIC LIMIT                             | NP      |
| PLASTICITY INDEX                          |         |
| LIQUIDITY INDEX                           |         |
| SAND (%)                                  | 68.3    |
| SILT (%)                                  | 19.9    |
| CLAY (%)                                  | 11.8    |
| ACTIVITY                                  |         |
| MEDIAN DIAMETER (MM)                      | 0.0670  |

KEY: - LAB TEST NOT CONDUCTED

\* LAB TEST CONDUCTED, DATA NOT REDUCED

BUREC NO. 58

\*\*\*\*\* CORE NO. SC-17

|   | LATITUDE      | 34° 05.9 | LONGITUDE | 119° 37.9 | WATER DEPTH | 189 m  |        |
|---|---------------|----------|-----------|-----------|-------------|--------|--------|
|   | INTERVAL (IN) | 0-3      | 12-15     | 24-27     | 36-39       | 48-51  | 60-63  |
| COLOR (GSA NO.)                           |               | 5Y5/2    | 5Y5/2     | 5Y5/2     | 5Y5/2       | 10Y6/2 | 10Y6/2 |
| BULK WET DENSITY (gm/cc)                  |               | *        | *         | *         | *           | *      | *      |
| VANE SHEAR STRENGTH (gm/cm <sup>2</sup> ) |               | *        | *         | *         | *           | *      | *      |
| REMOLDED STRENGTH (gm/cm <sup>2</sup> )   |               | *        | *         | *         | *           | *      | *      |
| SENSITIVITY                               |               | *        | *         | *         | *           | *      | *      |
| ORIGINAL WATER CONTENT (%)                | 45.3          | *        | *         | *         | *           | *      | *      |
| SPECIFIC GRAVITY OF SOLIDS                | 2.682         | 2.735    | 2.748     | 2.746     | 2.707       | 2.755  | *      |
| VOID RATIO                                | *             | *        | *         | *         | *           | *      | *      |
| LIQUID LIMIT                              | NP            | NP       | NP        | NP        | NP          | NP     | NP     |
| PLASTIC LIMIT                             | NP            | NP       | NP        | NP        | NP          | NP     | NP     |
| PLASTICITY INDEX                          |               |          |           |           |             |        |        |
| LIQUIDITY INDEX                           |               |          |           |           |             |        |        |
| SAND (%)                                  | 84.4          | 75.4     | 87.3      | 86.5      | 96.1        | 95.0   |        |
| SILT (%)                                  | 10.2          | 15.3     | 7.9       | 7.5       | 1.2         | 2.0    |        |
| CLAY (%)                                  | 5.4           | 13.3     | 4.8       | 6.0       | 2.7         | 3.0    |        |
| ACTIVITY                                  |               |          |           |           |             |        |        |
| MEDIAN DIAMETER (MM)                      | 0.0900        | 0.0900   | 0.1700    | 0.1600    | 0.2700      | 0.3300 |        |

KEY: - LAB TEST NOT CONDUCTED

\* LAB TEST CONDUCTED, DATA NOT REDUCED

BUREC NO. 59

\*\*\*\*\* CORE NO. SC-18

LATITUDE 34° 06.0  
INTERVAL (IN) 0-3 12-15

WATER DEPTH 184 m

|   |        |        |        |
|---|--------|--------|--------|
| COLOR (GSA NO.)                           |        | 10Y4/2 | 10Y4/2 |
| BULK WET DENSITY (gm/cc)                  | *      | *      | *      |
| VANE SHEAR STRENGTH (gm/cm <sup>2</sup> ) | *      | *      | *      |
| REMOLDED STRENGTH (gm/cm <sup>2</sup> )   | *      | *      | *      |
| SENSITIVITY                               | *      | *      | *      |
| ORIGINAL WATER CONTENT (%)                | *      | *      | *      |
| SPECIFIC GRAVITY OF SOLIDS                | 2.675  | 2.747  | *      |
| VOID RATIO                                | *      | *      | *      |
| LIQUID LIMIT                              | NP     | NP     | NP     |
| PLASTIC LIMIT                             | NP     | NP     | NP     |
| PLASTICITY INDEX                          |        |        |        |
| LIQUIDITY INDEX                           |        |        |        |
| SAND (%)                                  | 76.4   | 70.5   |        |
| SILT (%)                                  | 15.5   | 17.8   |        |
| CLAY (%)                                  | 8.1    | 11.7   |        |
| ACTIVITY                                  |        |        |        |
| MEDIAN DIAMETER (MM)                      | 0.0820 | 0.0740 |        |

KEY: - LAB TEST NOT CONDUCTED

\* LAB TEST CONDUCTED, DATA NOT REDUCED

BUREC NO. 60

\*\*\*\*\* CORE NO. SC-19

LATITUDE  $34^{\circ}$  05.8  
INTERVAL (IN)

WATER DEPTH 182 m

|   | LONGITUDE<br>0-3 | 119 $^{\circ}$<br>12-15 | 37.9 |
|---|------------------|-------------------------|------|
| COLOR (GSA NO.)                           | 10Y4/2           | 10Y4/2                  | *    |
| BULK WET DENSITY (gm/cc)                  | *                | *                       | *    |
| VANE SHEAR STRENGTH (gm/cm <sup>2</sup> ) | *                | *                       | *    |
| REMOLDED STRENGTH (gm/cm <sup>2</sup> )   | *                | *                       | *    |
| SENSITIVITY                               | *                | *                       | *    |
| ORIGINAL WATER CONTENT (%)                | *                | *                       | *    |
| SPECIFIC GRAVITY OF SOLIDS                | 2.703            | 2.749                   | *    |
| VOID RATIO                                | *                | *                       | *    |
| LIQUID LIMIT                              | NP               | NP                      | NP   |
| PLASTIC LIMIT                             | NP               | NP                      | NP   |
| PLASTICITY INDEX                          |                  |                         |      |
| LIQUIDITY INDEX                           |                  |                         |      |
| SAND (%)                                  |                  |                         |      |
| SILT (%)                                  |                  |                         |      |
| CLAY (%)                                  |                  |                         |      |
| ACTIVITY                                  |                  |                         |      |
| MEDIAN DIAMETER (MM)                      |                  |                         |      |

KEY: - LAB TEST NOT CONDUCTED

\* LAB TEST CONDUCTED, DATA NOT REDUCED

BUREC NO. 61

\*\*\*\*\* CORE NO. SC-20

LATITUDE  $34^{\circ}$  06.0  
INTERVAL (IN) 0-3 12-15

WATER DEPTH 184 m

| COLOR (GSA NO.) | BULK WET DENSITY (gm/cc) | VANE SHEAR STRENGTH (gm/cm <sup>2</sup> ) | REMOLDED STRENGTH (gm/cm <sup>2</sup> ) | SENSITIVITY | ORIGINAL WATER CONTENT (%) | SPECIFIC GRAVITY OF SOLIDS | VOID RATIO | LIQUID LIMIT | PLASTIC LIMIT | PLASTICITY INDEX | LIQUIDITY INDEX | SAND (%) | SILT (%) | CLAY (%) | ACTIVITY | MEDIAN DIAMETER (MM) | LONGITUDE $119^{\circ}$ 38.2 | WATER DEPTH 184 m |           |
|-----------------|--------------------------|---|---|-------------|----------------------------|----------------------------|------------|--------------|---------------|------------------|-----------------|----------|----------|----------|----------|----------------------|------------------------------|-------------------|-----------|
|                 |                          |   |   |             |                            |                            |            |              |               |                  |                 |          |          |          |          |                      |                              | 0-3 12-15         | 0-3 12-15 |
|                 |                          |   |   |             |                            |                            |            |              |               |                  |                 |          |          |          |          |                      |                              |                   |           |

KEY: - LAB TEST NOT CONDUCTED

\* LAB TEST CONDUCTED, DATA NOT REDUCED

BUREC NO. 62

\*\*\*\*\* CORE NO. SC-21

LATITUDE 34° 05.8  
INTERVAL (IN) 0-3 12-15

WATER DEPTH 182 m

|   |        |        |
|---|--------|--------|
| COLOR (GSA NO.)                           | 10Y4/2 | 10Y4/2 |
| BULK WET DENSITY (gm/cc)                  | *      | *      |
| VANE SHEAR STRENGTH (gm/cm <sup>2</sup> ) | *      | *      |
| REMOLDED STRENGTH (gm/cm <sup>2</sup> )   | *      | *      |
| SENSITIVITY                               | *      | *      |
| ORIGINAL WATER CONTENT (%)                | *      | *      |
| SPECIFIC GRAVITY OF SOLIDS                | 2.726  | 2.749  |
| VOID RATIO                                | *      | *      |
| LIQUID LIMIT                              | NP     | NP     |
| PLASTIC LIMIT                             | NP     | NP     |
| PLASTICITY INDEX                          |        |        |
| LIQUIDITY INDEX                           |        |        |
| SAND (%)                                  | 65.1   | 75.1   |
| SILT (%)                                  | 21.2   | 14.8   |
| CLAY (%)                                  | 13.7   | 10.1   |
| ACTIVITY                                  |        |        |
| MEDIAN DIAMETER (MM)                      | 0.0630 | 0.0810 |

KEY: - LAB TEST NOT CONDUCTED

\* LAB TEST CONDUCTED, DATA NOT REDUCED

BUREC NO. 63                                    \*\*\*\* \* CORE NO. SC-22  
LATITUDE 34° 06.2                            LONGITUDE 119° 38.3  
INTERVAL (IN)                                    0-3

|   |         |
|---|---------|
| COLOR (GSA NO.)                           | 5Y3/2 * |
| BULK WET DENSITY (gm/cc)                  | *       |
| VANE SHEAR STRENGTH (gm/cm <sup>2</sup> ) | *       |
| REMOLDED STRENGTH (gm/cm <sup>2</sup> )   | *       |
| SENSITIVITY                               | *       |
| ORIGINAL WATER CONTENT (%)                | *       |
| SPECIFIC GRAVITY OF SOLIDS                | 2.710 * |
| VOID RATIO                                | -       |
| LIQUID LIMIT                              | -       |
| PLASTIC LIMIT                             | -       |
| PLASTICITY INDEX                          |         |
| LIQUIDITY INDEX                           |         |
| SAND (%)                                  | 69.9    |
| SILT (%)                                  | 17.1    |
| CLAY (%)                                  | 13.0    |
| ACTIVITY                                  |         |
| MEDIAN DIAMETER (MM)                      | 0.0670  |

KEY: - LAB TEST NOT CONDUCTED

\* LAB TEST CONDUCTED, DATA NOT REDUCED

BUREC NO. 64

\*\*\*\*\* CORE NO. SC-23

LATITUDE  $34^{\circ}$  05.8  
INTERVAL (IN) 0-3

LONGITUDE  $119^{\circ}$  38.0  
WATER DEPTH 183 m

|  |        |        |        |
|--|--------|--------|--------|
| COLOR (GSA NO.)                          | 10Y4/2 | 5Y3/2  | 10Y6/2 |
| BULK WET DENSITY (gm/cc)                 | *      | *      | -      |
| VANE SHEAR STRENGTH ( $\text{gm/cm}^2$ ) | *      | *      | -      |
| REMOLDED STRENGTH ( $\text{gm/cm}^2$ )   | *      | *      | -      |
| SENSITIVITY                              | *      | *      | -      |
| ORIGINAL WATER CONTENT (%)               | *      | *      | ★      |
| SPECIFIC GRAVITY OF SOLIDS               | 2.743  | 2.707  | 2.746  |
| VOID RATIO                               | *      | *      | -      |
| LIQUID LIMIT                             | NP     | NP     | NP     |
| PLASTIC LIMIT                            | NP     | NP     | NP     |
| PLASTICITY INDEX                         |        |        |        |
| LIQUIDITY INDEX                          |        |        |        |
| SAND (%)                                 | 78.7   | 66.5   | 94.0   |
| SILT (%)                                 | 11.6   | 21.2   | 2.7    |
| CLAY (%)                                 | 9.7    | 12.3   | 3.3    |
| ACTIVITY                                 |        |        |        |
| MEDIAN DIAMETER (MM)                     | 0.0970 | 0.0660 | 0.1900 |

KEY: - LAB TEST NOT CONDUCTED

\* LAB TEST CONDUCTED, DATA NOT REDUCED

S2  
BUREC NO. 65 \*\*\*\* CORE NO. SC-24

LATITUDE  $34^{\circ}$  05.8  
INTERVAL (IN)

|   | LONGITUDE           | WATER DEPTH |
|---|---------------------|-------------|
|   | 119 $^{\circ}$ 38.0 | 185 m       |
| 0-3                                       | 12-15               |             |
| COLOR (GSA NO.)                           | 5Y3/2               | 5Y3/2       |
| BULK WET DENSITY (gm/cc)                  | *                   | *           |
| VANE SHEAR STRENGTH (gm/cm <sup>2</sup> ) | *                   | *           |
| REMOLDED STRENGTH (gm/cm <sup>2</sup> )   | *                   | *           |
| SENSITIVITY                               | *                   | *           |
| ORIGINAL WATER CONTENT (%)                | *                   | *           |
| SPECIFIC GRAVITY OF SOLIDS                | 2.682               | 2.734       |
| VOID RATIO                                | *                   | *           |
| LIQUID LIMIT                              | NP                  | NP          |
| PLASTIC LIMIT                             | NP                  | NP          |
| PLASTICITY INDEX                          |                     |             |
| LIQUIDITY INDEX                           |                     |             |
| SAND (%)                                  | 74.0                | 66.4        |
| SILT (%)                                  | 14.5                | 21.5        |
| CLAY (%)                                  | 11.5                | 12.1        |
| ACTIVITY                                  |                     |             |
| MEDIAN DIAMETER (MM)                      | 0.0810              | 0.0660      |

KEY: - LAB TEST NOT CONDUCTED

\* LAB TEST CONDUCTED, DATA NOT REDUCED

| BUREC NO.                                 | 66       |        |        | CORE NO. SC-25   |                      |
|---|----------|--------|--------|------------------|----------------------|
| LATITUDE<br>INTERVAL (IN)                 | 34° 06.0 |        |        | LONGITUDE<br>0-3 | WATER DEPTH<br>12-15 |
| COLOR (GSA NO.)                           |          | 5Y3/2  | 10Y4/2 |                  |                      |
| BULK WET DENSITY (gm/cc)                  |          | *      | *      |                  |                      |
| VANE SHEAR STRENGTH (gm/cm <sup>2</sup> ) |          | *      | *      |                  |                      |
| REMOLDED STRENGTH (gm/cm <sup>2</sup> )   |          | *      | *      |                  |                      |
| SENSITIVITY                               |          | *      | *      |                  |                      |
| ORIGINAL WATER CONTENT (%)                |          | *      | *      |                  |                      |
| SPECIFIC GRAVITY OF SOLIDS                | 2.709    | 2.735  | *      |                  |                      |
| VOID RATIO                                |          | *      | *      |                  |                      |
| LIQUID LIMIT                              | NP       | NP     |        |                  |                      |
| PLASTIC LIMIT                             | NP       | NP     |        |                  |                      |
| PLASTICITY INDEX                          |          |        |        |                  |                      |
| LIQUIDITY INDEX                           |          |        |        |                  |                      |
| SAND (%)                                  | 70.0     | 70.9   |        |                  |                      |
| SILT (%)                                  | 18.2     | 17.3   |        |                  |                      |
| CLAY (%)                                  | 11.8     | 11.8   |        |                  |                      |
| ACTIVITY                                  |          |        |        |                  |                      |
| MEDIAN DIAMETER (MM)                      | 0.0680   | 0.0710 |        |                  |                      |

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\* LAB TEST CONDUCTED, DATA NOT REDUCED

BUREC NO. 67

\*\*\*\*\* CORE NO. SC-26

| LATITUDE                                  | 34° 06.0 | LONGITUDE | 119° 38.0 | WATER DEPTH | 184 m  |
|---|----------|-----------|-----------|-------------|--------|
| INTERVAL (IN)                             | 0-3      | 12-15     | 24-27     | 36-39       | 48-51  |
| COLOR (GSA NO.)                           | 10Y4/2   | 10Y4/2    | 10Y6/2    | 10Y6/2      | 10Y6/2 |
| BULK WET DENSITY (gm/cc)                  | *        | *         | *         | *           | *      |
| VANE SHEAR STRENGTH (gm/cm <sup>2</sup> ) | *        | *         | *         | *           | -      |
| REMOLDED STRENGTH (gm/cm <sup>2</sup> )   | *        | *         | *         | *           | *      |
| SENSITIVITY                               | *        | *         | *         | *           | -      |
| ORIGINAL WATER CONTENT (%)                | *        | *         | *         | *           | *      |
| SPECIFIC GRAVITY OF SOLIDS                | 2.721    | 2.758     | 2.734     | 2.748       | 2.748  |
| VOID RATIO                                | *        | *         | *         | *           | *      |
| LIQUID LIMIT                              | NP       | NP        | NP        | NP          | NP     |
| PLASTIC LIMIT                             | NP       | NP        | NP        | NP          | NP     |
| PLASTICITY INDEX                          |          |           |           |             |        |
| LIQUIDITY INDEX                           |          |           |           |             |        |
| SAND (%)                                  | 69.1     | 76.3      | 86.0      | 91.2        | 92.3   |
| SILT (%)                                  | 18.6     | 15.4      | 8.4       | 4.1         | 4.1    |
| CLAY (%)                                  | 12.3     | 8.3       | 5.6       | 4.7         | 3.6    |
| ACTIVITY                                  |          |           |           |             |        |
| MEDIAN DIAMETER (MM)                      | 0.0670   | 0.0830    | 0.1400    | 0.2800      | 0.2700 |

KEY: - LAB TEST NOT CONDUCTED

\* LAB TEST CONDUCTED, DATA NOT REDUCED

| BUREC NO.                                 | 68       | *****  | CORE NO.  | SC-27     |
|---|----------|--------|-----------|-----------|
| LATITUDE<br>INTERVAL (IN)                 | 34° 06.1 |        | LONGITUDE | 119° 37.8 |
|   | 0-3      |        |           |           |
| COLOR (GSA NO.)                           |          | 10Y4/2 |           | *         |
| BULK WET DENSITY (gm/cc)                  |          |        |           | *         |
| VANE SHEAR STRENGTH (gm/cm <sup>2</sup> ) |          |        |           | *         |
| REMOLDED STRENGTH (gm/cm <sup>2</sup> )   |          |        |           | *         |
| SENSITIVITY                               |          |        |           | *         |
| ORIGINAL WATER CONTENT (%)                |          |        |           | *         |
| SPECIFIC GRAVITY OF SOLIDS                |          | 2.696  |           | *         |
| VOID RATIO                                |          |        |           |           |
| LIQUID LIMIT                              |          | NP     |           |           |
| PLASTIC LIMIT                             |          | NP     |           |           |
| PLASTICITY INDEX                          |          |        |           |           |
| LIQUIDITY INDEX                           |          |        |           |           |
| SAND (%)                                  |          | 72.9   |           |           |
| SILT (%)                                  |          | 17.1   |           |           |
| CLAY (%)                                  |          | 10.0   |           |           |
| ACTIVITY                                  |          |        |           |           |
| MEDIAN DIAMETER (MM)                      |          | 0.0860 |           |           |

KEY: - LAB TEST NOT CONDUCTED

\* LAB TEST CONDUCTED, DATA NOT REDUCED

BUREC NO. 69

\*\*\*\*\* CORE NO. SC-28

| LATITUDE<br>INTERVAL<br>(IN)              | 34°<br>06.0 | 06.0   | LONGITUDE<br>0-3 | 119°<br>12-15 | 37.9<br>24-27 | WATER DEPTH<br>192 m |
|---|-------------|--------|------------------|---------------|---------------|----------------------|
| COLOR (GSA NO.)                           |             |        | 10Y4/2           | 10Y4/2        | 10Y4/2        | *                    |
| BULK WET DENSITY (gm/cc)                  |             |        | *                | *             | *             | *                    |
| VANE SHEAR STRENGTH (gm/cm <sup>2</sup> ) |             |        | *                | *             | *             | *                    |
| REMOLDED STRENGTH (gm/cm <sup>2</sup> )   |             |        | *                | *             | *             | *                    |
| SENSITIVITY                               |             |        | *                | *             | *             | *                    |
| ORIGINAL WATER CONTENT (%)                |             |        | *                | *             | *             | *                    |
| SPECIFIC GRAVITY OF SOLIDS                |             | 2.651  | 2.708            | 2.741         | 2.741         | *                    |
| VOID RATIO                                |             | *      | *                | -             | -             | *                    |
| LIQUID LIMIT                              |             | NP     | -                | -             | -             | NP                   |
| PLASTIC LIMIT                             |             | NP     | -                | -             | -             | NP                   |
| PLASTICITY INDEX                          |             |        |                  |               |               |                      |
| LIQUIDITY INDEX                           |             |        |                  |               |               |                      |
| SAND (%)                                  | 70.3        | 64.9   | 76.5             |               |               |                      |
| SILT (%)                                  | 18.8        | 23.1   | 14.4             |               |               |                      |
| CLAY (%)                                  | 10.9        | 12.0   | 9.1              |               |               |                      |
| ACTIVITY                                  | 0.0760      | 0.0650 | 0.0930           |               |               |                      |
| MEDIAN DIAMETER (MM)                      |             |        |                  |               |               |                      |

KEY: - LAB TEST NOT CONDUCTED

\* LAB TEST CONDUCTED, DATA NOT REDUCED

BUREC NO. 70

\*\*\*\*\* CORE NO. SC-29

LATITUDE  $34^{\circ} 05.9$   
INTERVAL (IN)

LONGITUDE  $119^{\circ} 38.1$

0-3 12-15

24-27

WATER DEPTH 184 m

|   |        |        |        |
|---|--------|--------|--------|
| COLOR (GSA NO.)                           | 5Y3/2  | 5Y3/2  | 10Y6/2 |
| BULK WET DENSITY (gm/cc)                  | *      | *      | *      |
| VANE SHEAR STRENGTH (gm/cm <sup>2</sup> ) | *      | *      | *      |
| REMOLDED STRENGTH (gm/cm <sup>2</sup> )   | *      | *      | *      |
| SENSITIVITY                               | *      | *      | *      |
| ORIGINAL WATER CONTENT (%)                | *      | *      | *      |
| SPECIFIC GRAVITY OF SOLIDS                | 2.674  | 2.713  | 2.730  |
| VOID RATIO                                | *      | *      | *      |
| LIQUID LIMIT                              | NP     | NP     | NP     |
| PLASTIC LIMIT                             | NP     | NP     | NP     |
| PLASTICITY INDEX                          |        |        |        |
| LIQUIDITY INDEX                           |        |        |        |
| SAND (%)                                  | 63.0   | 62.2   | 90.1   |
| SILT (%)                                  | 25.6   | 24.2   | 4.1    |
| CLAY (%)                                  | 11.4   | 13.6   | 5.8    |
| ACTIVITY                                  |        |        |        |
| MEDIAN DIAMETER (MM)                      | 0.0630 | 0.0650 | 0.1700 |

KEY: - LAB TEST NOT CONDUCTED

\* LAB TEST CONDUCTED, DATA NOT REDUCED

BUREC NO. 71

\*\*\*\*\* CORE NO. SC-30

LATITUDE 34° 06.0  
INTERVAL (IN)LONGITUDE 119° 38.0  
0-3 12-15 24-27  
WATER DEPTH 188 m

|   |        |        |        |
|---|--------|--------|--------|
| COLOR (GSA NO.)                           | 5Y3/2  | 10Y4/2 | 10Y6/2 |
| BULK WET DENSITY (gm/cc)                  | *      | *      | -      |
| VANE SHEAR STRENGTH (gm/cm <sup>2</sup> ) | *      | *      | -      |
| REMOLDED STRENGTH (gm/cm <sup>2</sup> )   | *      | *      | -      |
| SENSITIVITY                               | *      | *      | -      |
| ORIGINAL WATER CONTENT (%)                | *      | *      | *      |
| SPECIFIC GRAVITY OF SOLIDS                | 2.696  | 2.728  | 2.745  |
| VOID RATIO                                | *      | *      | -      |
| LIQUID LIMIT                              | NP     | NP     | NP     |
| PLASTIC LIMIT                             | NP     | NP     | NP     |
| PLASTICITY INDEX                          |        |        |        |
| LIQUIDITY INDEX                           |        |        |        |
| SAND (%)                                  | 72.2   | 65.1   | 90.1   |
| SILT (%)                                  | 17.8   | 22.4   | 4.3    |
| CLAY (%)                                  | 10.0   | 12.5   | 5.6    |
| ACTIVITY                                  | 0.0760 | 0.0660 | 0.1700 |
| MEDIAN DIAMETER (MM)                      |        |        |        |

KEY: - LAB TEST NOT CONDUCTED

\* LAB TEST CONDUCTED, DATA NOT REDUCED

BUREC NO. 72

\*\*\*\*\* CORE NO. SC-31

LATITUDE  $34^{\circ}$  06.0  
INTERVAL (IN) 0-3 12-15

LONGITUDE  $119^{\circ}$  38.1

WATER DEPTH 186 m

|   |        |        |
|---|--------|--------|
| COLOR (GSA NO.)                           | 10Y4/2 | 10Y4/2 |
| BULK WET DENSITY (gm/cc)                  | *      | *      |
| VANE SHEAR STRENGTH (gm/cm <sup>2</sup> ) | *      | *      |
| REMOLDED STRENGTH (gm/cm <sup>2</sup> )   | *      | *      |
| SENSITIVITY                               | *      | *      |
| ORIGINAL WATER CONTENT (%)                | *      | *      |
| SPECIFIC GRAVITY OF SOLIDS                | 2.685  | 2.716  |
| VOID RATIO                                | *      | *      |
| LIQUID LIMIT                              | NP     | NP     |
| PLASTIC LIMIT                             | NP     | NP     |
| PLASTICITY INDEX                          |        |        |
| LIQUIDITY INDEX                           |        |        |
| SAND (%)                                  | 67.2   | 76.4   |
| SILT (%)                                  | 19.3   | 14.6   |
| CLAY (%)                                  | 13.5   | 9.0    |
| ACTIVITY                                  |        |        |
| MEDIAN DIAMETER (MM)                      | 0.0730 | 0.0890 |

KEY: - LAB TEST NOT CONDUCTED

\* LAB TEST CONDUCTED, DATA NOT REDUCED

BUREC NO. 73

\*\*\*\*\* CORE NO. SC-32

| LATITUDE                                  | 34° 06.1 | LONGITUDE | 119° 38.0 | WATER DEPTH | 188 m |
|---|----------|-----------|-----------|-------------|-------|
| INTERVAL (IN)                             |          | 0-3       | 12-15     | 24-27       |       |
| COLOR (GSA NO.)                           |          | 10Y4/2    | 10Y4/2    | 10Y4/2      | *     |
| BULK WET DENSITY (gm/cc)                  |          | *         | *         | *           | *     |
| VANE SHEAR STRENGTH (gm/cm <sup>2</sup> ) |          | *         | *         | *           | *     |
| REMOLDED STRENGTH (gm/cm <sup>2</sup> )   |          | *         | *         | *           | *     |
| SENSITIVITY                               |          | *         | *         | *           | *     |
| ORIGINAL WATER CONTENT (%)                |          | *         | *         | *           | *     |
| SPECIFIC GRAVITY OF SOLIDS                | 2.690    | 2.715     | 2.729     | *           | *     |
| VOID RATIO                                | *        | *         | *         | *           | *     |
| LIQUID LIMIT                              | NP       | NP        | NP        | NP          | NP    |
| PLASTIC LIMIT                             | NP       | NP        | NP        | NP          | NP    |
| PLASTICITY INDEX                          |          |           |           |             |       |
| LIQUIDITY INDEX                           |          |           |           |             |       |
| SAND (%)                                  | 70.0     | 68.3      | 79.8      |             |       |
| SILT (%)                                  | 18.3     | 19.3      | 12.6      |             |       |
| CLAY (%)                                  | 11.7     | 12.4      | 7.6       |             |       |
| ACTIVITY                                  |          |           |           |             |       |
| MEDIAN DIAMETER (MM)                      | 0.0800   | 0.0740    | 0.1400    |             |       |

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\* LAB TEST CONDUCTED, DATA NOT REDUCED

BUREC NO. 74    \*\*\*\* CORE NO. SC-33  
LATITUDE 34° 05.8                                    LONGITUDE 119° 38.0                                    WATER DEPTH 182 m  
INTERVAL (IN)    0-3

|   |        |
|---|--------|
| COLOR (GSA NO.)                           | 5Y3/2  |
| BULK WET DENSITY (gm/cc)                  | *      |
| VANE SHEAR STRENGTH (gm/cm <sup>2</sup> ) | *      |
| REMOLDED STRENGTH (gm/cm <sup>2</sup> )   | *      |
| SENSITIVITY                               | *      |
| ORIGINAL WATER CONTENT (%)                | *      |
| SPECIFIC GRAVITY OF SOLIDS                | 2.703  |
| VOID RATIO                                | *      |
| LIQUID LIMIT                              | NP     |
| PLASTIC LIMIT                             | NP     |
| PLASTICITY INDEX                          |        |
| LIQUIDITY INDEX                           |        |
| SAND (%)                                  | 73.8   |
| SILT (%)                                  | 15.4   |
| CLAY (%)                                  | 10.8   |
| ACTIVITY                                  |        |
| MEDIAN DIAMETER (MM)                      | 0.0830 |

KEY: - LAB TEST NOT CONDUCTED

\* LAB TEST CONDUCTED, DATA NOT REDUCED

REMARKS: INTERVAL 12-15 IN. NOT TESTED; ALL LARGE SHELLS AND SAND.

BUREC NO. 75

\*\*\*\*\* CORE NO. SC-34

LATITUDE 34° 06.1  
INTERVAL (IN) 0-3 12-15

|   | LONGITUDE | 119° 38.2 | WATER DEPTH | 193 m |
|---|-----------|-----------|-------------|-------|
| COLOR (GSA NO.)                           | 5Y3/2     | 5Y3/2     |             |       |
| BULK WET DENSITY (gm/cc)                  | *         | *         |             |       |
| VANE SHEAR STRENGTH (gm/cm <sup>2</sup> ) | *         | *         |             |       |
| REMOLDED STRENGTH (gm/cm <sup>2</sup> )   | *         | *         |             |       |
| SENSITIVITY                               | *         | *         |             |       |
| ORIGINAL WATER CONTENT (%)                | *         | *         |             |       |
| SPECIFIC GRAVITY OF SOLIDS                | 2.720     | 2.766     |             |       |
| VOID RATIO                                | *         | *         |             |       |
| LIQUID LIMIT                              | NP        | NP        |             |       |
| PLASTIC LIMIT                             | NP        | NP        |             |       |
| PLASTICITY INDEX                          |           |           |             |       |
| LIQUIDITY INDEX                           |           |           |             |       |
| SAND (%)                                  | 67.1      | 66.0      |             |       |
| SILT (%)                                  | 22.1      | 20.5      |             |       |
| CLAY (%)                                  | 10.8      | 13.5      |             |       |
| ACTIVITY                                  |           |           |             |       |
| MEDIAN DIAMETER (MM)                      | 0.0700    | 0.0660    |             |       |

KEY: - LAB TEST NOT CONDUCTED

\* LAB TEST CONDUCTED, DATA NOT REDUCED

BUREC NO. 76

\*\*\*\*\* CORE NO. SC-36

LATITUDE 34° 06.1  
INTERVAL (IN)

WATER DEPTH 185 m

|   |        |        |
|---|--------|--------|
| COLOR (GSA NO.)                           | 5Y3/2  | 10Y4/2 |
| BULK WET DENSITY (gm/cc)                  | *      | *      |
| VANE SHEAR STRENGTH (gm/cm <sup>2</sup> ) | *      | *      |
| REMOLDED STRENGTH (gm/cm <sup>2</sup> )   | *      | *      |
| SENSITIVITY                               | *      | *      |
| ORIGINAL WATER CONTENT (%)                | *      | *      |
| SPECIFIC GRAVITY OF SOLIDS                | 2.696  | 2.766  |
| VOID RATIO                                | *      | *      |
| LIQUID LIMIT                              | -      | NP     |
| PLASTIC LIMIT                             | -      | NP     |
| PLASTICITY INDEX                          |        |        |
| LIQUIDITY INDEX                           |        |        |
| SAND (%)                                  | 72.1   | 77.0   |
| SILT (%)                                  | 16.0   | 13.7   |
| CLAY (%)                                  | 11.9   | 9.3    |
| ACTIVITY                                  |        |        |
| MEDIAN DIAMETER (MM)                      | 0.0770 | 0.0800 |

KEY: - LAB TEST NOT CONDUCTED

\* LAB TEST CONDUCTED, DATA NOT REDUCED

BUREC NO. 77

\*\*\*\*\* CORE NO. SC-37

LATITUDE 34° 06.1  
INTERVAL (IN) 0-3 12-15  
LONGITUDE 119° 38.1  
WATER DEPTH 190 m

|   |       |        |
|---|-------|--------|
| COLOR (GSA NO.)                           | 5Y3/2 | 10Y4/2 |
| BULK WET DENSITY (gm/cc)                  | *     | *      |
| VANE SHEAR STRENGTH (gm/cm <sup>2</sup> ) | *     | *      |
| REMOLDED STRENGTH (gm/cm <sup>2</sup> )   | *     | *      |
| SENSITIVITY                               | *     | *      |
| ORIGINAL WATER CONTENT (%)                | *     | *      |
| SPECIFIC GRAVITY OF SOLIDS                | 2.677 | 2.737  |
| VOID RATIO                                | *     | *      |
| LIQUID LIMIT                              | NP    | NP     |
| PLASTIC LIMIT                             | NP    | NP     |
| PLASTRICITY INDEX                         |       |        |
| LIQUIDITY INDEX                           |       |        |
| SAND (%)                                  | *     | *      |
| SILT (%)                                  | *     | *      |
| CLAY (%)                                  | *     | *      |
| ACTIVITY                                  |       |        |
| MEDIAN DIAMETER (MM)                      | *     | *      |

KEY: - LAB TEST NOT CONDUCTED

\* LAB TEST CONDUCTED, DATA NOT REDUCED

BUREC NO. 78

\*\*\*\*\* CORE NO. SC-38

LATITUDE 34° 05.9  
INTERVAL (IN) 0-3

LONGITUDE 119° 38.0  
INTERVAL 12-15

WATER DEPTH 186 m

|   |       |        |
|---|-------|--------|
| COLOR (GSA NO.)                           | 5Y3/2 | 10Y4/2 |
| BULK WET DENSITY (gm/cc)                  | *     | 1.697  |
| VANE SHEAR STRENGTH (gm/cm <sup>2</sup> ) | *     | 26.9   |
| REMOLDED STRENGTH (gm/cm <sup>2</sup> )   | *     | 15.0   |
| SENSITIVITY                               | *     | 1.8    |
| ORIGINAL WATER CONTENT (%)                | *     | 49.8   |
| SPECIFIC GRAVITY OF SOLIDS                | 2.659 | 2.681  |
| VOID RATIO                                | *     | 1.364  |
| LIQUID LIMIT                              | NP    | 34.1   |
| PLASTIC LIMIT                             | NP    | NP     |
| PLASTICITY INDEX                          |       | *      |
| LIQUIDITY INDEX                           |       | *      |
| SAND (%)                                  | *     | *      |
| SILT (%)                                  | *     | *      |
| CLAY (%)                                  | *     | *      |
| ACTIVITY                                  |       | *      |
| MEDIAN DIAMETER (MM)                      | *     | *      |

KEY: - LAB TEST NOT CONDUCTED

\* LAB TEST CONDUCTED, DATA NOT REDUCED

BUREC NO. 79

\*\*\*\*\* CORE NO. SC-39

LATITUDE  $34^{\circ}$  06.3  
INTERVAL (IN) 0-3 12-15

|   |        |
|---|--------|
| COLOR (GSA NO.)                           | 10Y4/2 |
| BULK WET DENSITY (gm/cc)                  | *      |
| VANE SHEAR STRENGTH (gm/cm <sup>2</sup> ) | *      |
| REMOLELD STRENGTH (gm/cm <sup>2</sup> )   | *      |
| SENSITIVITY                               | *      |
| ORIGINAL WATER CONTENT (%)                | *      |
| SPECIFIC GRAVITY OF SOLIDS                | 2.705  |
| VOID RATIO                                | *      |
| LIQUID LIMIT                              | NP     |
| PLASTIC LIMIT                             | NP     |
| PLASTICITY INDEX                          |        |
| LIQUIDITY INDEX                           | *      |
| SAND (%)                                  | *      |
| SILT (%)                                  | *      |
| CLAY (%)                                  | *      |
| ACTIVITY                                  | *      |
| MEDIAN DIAMETER (MM)                      | *      |

KEY: - LAB TEST NOT CONDUCTED

\* LAB TEST CONDUCTED, DATA NOT REDUCED

BUREC NO. 80

\*\*\*\*\* CORE NO. SC-2

|               |           |           |            |
|---------------|-----------|-----------|------------|
| LATITUDE      | 34° 05.5' | LONGITUDE | 119° 37.2' |
| INTERVAL (IN) | 0-3       | 12-15     | 24-27      |

|   |        |        |        |
|---|--------|--------|--------|
| COLOR (GSA NO.)                           | 10Y4/2 | 10Y4/2 | 10Y4/2 |
| BULK WET DENSITY (gm/cc)                  | 1.701  | 1.763  | 1.883  |
| VANE SHEAR STRENGTH (gm/cm <sup>2</sup> ) | 26.2   | 80.6   | 44.1   |
| REMOLDED STRENGTH (gm/cm <sup>2</sup> )   | 10.9   | 23.2   | 24.8   |
| SENSITIVITY                               | 2.4    | 3.5    | 1.8    |
| ORIGINAL WATER CONTENT (%)                | 46.7   | 45.3   | 34.5   |
| SPECIFIC GRAVITY OF SOLIDS                | 2.651  | 2.738  | 2.743  |
| VOID RATIO                                | 1.283  | 1.257  | 0.961  |
| LIQUID LIMIT                              | 37.5   | 41.3   | NP     |
| PLASTIC LIMIT                             | NP     | 30.1   | NP     |
| PLASTICITY INDEX                          |        |        |        |
| LIQUIDITY INDEX                           |        |        |        |
| SAND (%)                                  | 67.3   | 58.0   | 75.3   |
| SILT (%)                                  | 21.4   | 25.5   | 14.6   |
| CLAY (%)                                  | 11.3   | 16.5   | 10.1   |
| ACTIVITY                                  |        |        |        |
| MEDIAN DIAMETER (MM)                      | 0.0630 | 0.0630 | 0.0820 |

KEY: - LAB TEST NOT CONDUCTED

\* LAB TEST CONDUCTED, DATA NOT REDUCED

BUREAU NO. 81

\*\*\*\*\* CORE NO. SCN1 - 15 \*\*\*\*\*

LATITUDE 34° 11.40' N LONGITUDE 119° 35.40' W  
INTERVAL (IN) 0- 3 3- 6 6- 9 9- 12 12-15

| COLOR (GSA NO.)            | 5Y3/2 | 5Y3/2 | 5Y3/2 | 5Y3/2 | 5Y3/2 |
|----------------------------|-------|-------|-------|-------|-------|
| BULK WET DENSITY (PCF)     | 115.  | 113.  | 111.  | 113.  | 115.  |
| VANE SHEAR STRENGTH (PSF)  | 93.   | 209.  | 230.  | 236.  | 440.  |
| REMOLDED STRENGTH (PSF)    | 38.   | 97.   | 131.  | 146.  | 194.  |
| SENSITIVITY                | 2.4   | 2.2   | 1.8   | 1.6   | 2.3   |
| ORIGINAL WATER CONTENT %   | 40.0  | 47.0  | 50.9  | 45.3  | 38.5  |
| SPECIFIC GRAVITY OF SOLIDS | 2.63  | 2.63  | 2.64  | 2.64  | 2.64  |
| VOID RATIO                 | 1.00  | 1.14  | 1.24  | 1.12  | 0.98  |
| Liquid Limit %             | 31.   | 45.   | 50.   | 46.   | 40.   |
| Plastic Limit %            | 25.   | 27.   | 17.   | 29.   | 26.   |
| PLASTICITY INDEX           | 6.    | 18.   | 33.   | 17.   | 14.   |
| Liquidity Index            | 250.  | 111.  | 103.  | 96.   | 89.   |
| CARBONATE CARBON CONTENT % | •39   | •52   | •39   | •43   | •60   |
| ORGANIC CARBON CONTENT %   | •52   | •67   | •85   | •78   | •61   |
| SAND %                     | 47.0  | 10.0  | 7.9   | 10.4  | 13.8  |
| SILT %                     | 33.1  | 54.7  | 52.4  | 54.6  | 55.0  |
| CLAY %                     | 19.9  | 35.3  | 39.7  | 35.0  | 31.2  |
| ACTIVITY                   | •4    | •7    | 1.2   | •7    | •7    |
| MEDIAN DIAMETER (NM)       | •0460 | •0116 | •0092 | •0112 | •0146 |

09005058

BUREC NO. 82

\*\*\*\*\* CORE NO SCNI - 16 \*\*\*\*\*

LATITUDE 34-9.40-N LONGITUDE 119-28.40 W WATER DEPTH - 103. FM  
INTERVAL (IN) 0- 3

|                            |       |
|----------------------------|-------|
| COLOR (GSA NO.)            | SY4/1 |
| BULK WET DENSITY (PCF)     | 122.  |
| VANE SHEAR STRENGTH (PSF)  | 89.   |
| REMOLDED STRENGTH (PSF)    | 55.   |
| SENSITIVITY                | 1.6   |
| ORIGINAL WATER CONTENT-%   | 27.7  |
| SPECIFIC GRAVITY OF SOLIDS | 2.63  |
| VOID RATIO                 | .72   |
| CARBONATE CARBON CONTENT-% | .18   |
| ORGANIC CARBON CONTENT-%   | .28   |
| SAND %                     | 80.9  |
| SILT %                     | 11.5  |
| CLAY %                     | 7.6   |
| ACTIVITY                   | 0.0   |
| MEDIAN DIAMETER (MM)       | .0920 |

BUREC NO. 83

\*\*\*\*\* CORE NO. SCN1 - 17 \*\*\*\*\*

LATITUDE 34° 9.25' N  
INTERVAL (IN)LONGITUDE 119° 28.30' W  
WATER DEPTH 113. FM

|                            |         |
|----------------------------|---------|
| COLOR (GSA NO.)            | SY3/2   |
| BULK WET DENSITY (PCF)     | 116.    |
| VANE SHEAR STRENGTH (PSF)  | 142.    |
| REMOLDED STRENGTH (PSF)    | 98.     |
| SENSITIVITY                | 1.4     |
| ORIGINAL WATER CONTENT %   | 27.2    |
| SPECIFIC GRAVITY OF SOLIDS | 2.61    |
| VOID RATIO                 | • 79    |
| LIQUID LIMIT %             | •       |
| PLASTIC LIMIT %            | •       |
| PLASTICITY INDEX           | •       |
| LIQUIDITY INDEX            | •       |
| CARBONATE CARBON CONTENT % | • 36    |
| ORGANIC CARBON CONTENT %   | • 28    |
| SAND %                     | 77.0    |
| SILT %                     | 14.0    |
| CLAY %                     | 9.0     |
| ACTIVITY                   | 0.0     |
| MEDIAN DIAMETER (MM)       | • 0.185 |

BUREC NO. 84

\*\*\*\*\* CORE NO. SCN1 - 27 \*\*\*\*\*

LATITUDE 34° 9.40' N LONGITUDE 119° 27.70' W  
INTERVAL (IN) 0 - 3

COLOR (GSA NO.) 5YR4/1

BULK WET DENSITY (PCF) 118.

VANE SHEAR STRENGTH (PSF) 85.

REMOLDED STRENGTH (PSF) 32.

SENSITIVITY 2.7

ORIGINAL WATER CONTENT % 32.9

SPECIFIC GRAVITY OF SOLIDS 2.61

VOID RATIO .84

CARBONATE CARBON CONTENT % .36

ORGANIC CARBON CONTENT % .45

SAND % 76.3

SILT % 15.4

CLAY % 8.3

ACTIVITY 0.0

MEDIAN DIAMETER (NM) .0820

WATER DEPTH 100. FM

BUREAU NO. 85

\*\*\*\*\* CORE NO. SCN1 - 29 \*\*\*\*\*

LATITUDE - 34° 9.55' N      LONGITUDE 119° 27.30' W      WATER DEPTH - 91.0 FM  
INTERVAL (IN)      0 - 3      3 - 6

COLOR (GSA NO.)      10YR4/2 SGY4/1

BULK WET DENSITY (PCF)      117.      121.

VANE SHEAR STRENGTH (PSF)

REMOLDED STRENGTH (PSF)      107.      226.

SENSITIVITY

ORIGINAL WAFFER CONTENT %      14.      105.

SPECIFIC GRAVITY OF SOLIDS

VOID RATIO

LIQUID LIMIT %

PLASTIC LIMIT %

PLASTICITY INDEX

LIQUIDITY INDEX

CARBONATE CARRON CONTENT %

ORGANIC CARBON CONTENT %

SAND %

SILT %

CLAY %

ACTIVITY

MEDIAN DIAMETER (MM)

0.0      0.3

0.0      0.3

0.0      0.3

0.0      0.3

0.0      0.3

0.0      0.3

0.0      0.3

0.0      0.3

0.0      0.3

0.0      0.3

0.0      0.3

0.0      0.3

0.0      0.3

0.0      0.3

0.0      0.3

0.0      0.3

BUREC NO. 86

\*\*\*\*\* CORE NO AT - 13 \*\*\*\*\*

LATITUDE 34 17.00UN  
INTERVAL (In) 0.3LONGITUDE 119 24.40  
WATER DEPTH 17. FM

|                             |       |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|-------|
| BULK WET DENSITY (GM/CC)    | 1.671 | 1.716 | 1.838 | 1.895 | 1.925 |
| VANE SHEAR STRENGTH (PSI)   | .215  | .378  | .637  | .895  | 1.110 |
| VANE SHEAR STRENGTH (GM/SC) | 15.1  | 26.6  | 44.8  | 62.9  | 78.0  |
| REMOLEDED STRENGTH (PSI)    | .073  | .141  | .260  | .510  | 1.038 |
| REMOLEDED STRENGTH (GM/SC)  | 5.2   | 9.9   | 18.2  | 35.9  | 73.0  |
| SENSITIVITY                 | 2.9   | 2.7   | 2.5   | 1.8   | 1.1   |
| ORIGINAL WATER CONTENT %    | 62.7  | 56.1  | 47.0  | 41.4  | 39.8  |
| SPECIFIC GRAVITY OF SOLIDS  | 2.679 | 2.657 | 2.639 | 2.667 | 2.662 |
| VOID RATIO                  | 1.608 | 1.417 | 1.111 | .990  | .933  |
| LIQUID LIMIT %              | 42.0  | 41.8  | 38.7  | 38.9  | 39.5  |
| PLASTIC LIMIT %             | 28.1  | 30.7  | 27.9  | 29.1  | 26.9  |
| PLASTICITY INDEX            | 13.9  | 11.1  | 10.8  | 9.8   | 10.6  |
| LIQUIDITY INDEX             | 249.  | 228.  | 177.  | 125.  | 103.  |
| PERCENT SAND                | 4.4   | 6.2   | 6.0   | 7.0   | 14.8  |
| PERCENT SILT                | 70.4  | 65.2  | 64.2  | 67.4  | 61.6  |
| PERCENT CLAY                | 25.2  | 28.6  | 29.8  | 25.6  | 23.6  |
| ACTIVITY                    | 0.7   | 0.5   | 0.5   | 0.6   | 0.6   |
| MEDIAN DIAMETER (MM)        | .0150 | .0140 | .0140 | .0160 | .0170 |

LATITUDE 34 16.7 N      LONGITUDE 119 24.2 W      WATER DEPTH 17. FM  
 INTERVAL (IN)            0- 3    3- 6    6- 9    9-12    12-15    15-18    18-21

|                            |       |       |       |       |       |       |       |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|
| BULK WET DENSITY (GM/CC)   | 1.641 | 1.636 | 1.666 | 1.710 | 1.777 | 1.678 | 1.731 |
| VANF SHEAR STRENGTH (PSI)  | .172  | .375  | .396  | .694  | .358  | .369  | .439  |
| REMOLDED STRENGTH (PSI)    | .072  | .223  | .161  | .213  | .222  | .175  | .167  |
| SENSITIVITY                | 2.4   | 1.7   | 2.5   | 3.3   | 1.6   | 2.1   | 2.6   |
| ORIGINAL WATER CONTENT %   | 61.9  | 51.0  | 58.4  | 54.6  | 51.1  | 53.4  | 56.0  |
| SPECIFIC GRAVITY OF SOLIDS | 2.701 | 2.680 | 2.705 | 2.684 | 2.672 | 2.630 | 2.615 |
| VOID RATIO                 | 1.664 | 1.473 | 1.571 | 1.427 | 1.273 | 1.403 | 1.356 |
| LIQUID LIMIT %             | 43.3  | 42.2  | 46.0  | 44.3  | 42.7  | 43.7  | 44.6  |
| PLASTIC LIMIT %            | 27.4  | 28.2  | 31.3  | 29.7  | 31.0  | 27.5  | 28.9  |
| PLASTICITY INDEX           | 15.9  | 14.0  | 14.7  | 14.6  | 11.8  | 16.2  | 15.7  |
| LIQUIDITY INDEX            | 216.  | 162.  | 184.  | 170.  | 171.  | 160.  | 172.  |

\*\*\*\*\* CORE NO PB - 1 \*\*\*\*\*

LATITUDE 34 16.7 N      LONGITUDE 119 24.2 W      WATER DEPTH 17. FM  
 INTERVAL (IN)            21-24    24-27    27-30    30-33    33-36    36-39    39-42

|                            |       |       |       |       |       |       |       |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|
| BULK WET DENSITY (GM/CC)   | 1.761 | 1.795 | 1.784 | 1.810 | 1.795 | 1.820 | 1.849 |
| VANF SHEAR STRENGTH (PSI)  | .785  | .388  | .580  | .374  | .737  | .610  | .762  |
| REMOLDED STRENGTH (PSI)    | .239  | .209  | .284  | .167  | .266  | .299  | .443  |
| SENSITIVITY                | 3.3   | 1.9   | 2.0   | 2.2   | 2.8   | 2.0   | 1.7   |
| ORIGINAL WATER CONTENT %   | 46.1  | 47.1  | 44.8  | 48.2  | 41.9  | 44.9  | 41.8  |
| SPECIFIC GRAVITY OF SOLIDS | 2.620 | 2.668 | 2.632 | 2.650 | 2.632 | 2.638 | 2.670 |
| VOID RATIO                 | 1.173 | 1.186 | 1.136 | 1.169 | 1.082 | 1.099 | 1.047 |
| LIQUID LIMIT %             | 38.5  | 38.2  | -     | -     | 38.0  | -     | -     |
| PLASTIC LIMIT %            | 28.6  | 26.8  | -     | -     | 27.3  | -     | -     |
| PLASTICITY INDEX           | 9.9   | 11.4  | -     | -     | 10.7  | -     | -     |
| LIQUIDITY INDEX            | 177.  | 179.  | -     | -     | 164.  | -     | -     |

BUREC NO. 87, P. 2

\* \* \* \* \* CORE NO PB - 1 \* \* \* \* \*

LATITUDE 34° 16.7' N LONGITUDE 119° 24.2' W WATER DEPTH 17. FM  
INTERVAL (IN) 42-45

|                            |       |
|----------------------------|-------|
| BULK WET DENSITY (GM/CC)   | 1.871 |
| VANE SHEAR STRENGTH (PSI)  | .985  |
| REMOLDED STRENGTH (PSI)    | .698  |
| SENSITIVITY                | 1.4   |
| ORIGINAL WATER CONTENT %   | 39.8  |
| SPECIFIC GRAVITY OF SOLIDS | 2.651 |
| VOID RATIO                 | .981  |
| LIQUID LIMIT %             | -     |
| PLASTIC LIMIT %            | -     |
| PLASTICITY INDEX           | -     |
| LIQUIDITY INDEX            | -     |

BUREC NO. 88, P. 1

\*\*\*\*\* CORE NO PB - 2 \*\*\*\*\*

(D)

| LATITUDE 34 16.7 N         |       | LONGITUDE 119 24.2 W |       | WATER DEPTH 17.0 FM |                        |
|----------------------------|-------|----------------------|-------|---------------------|------------------------|
| INTERVAL (IN)              |       | 0- 3                 | 3- 6  | 6- 9                | 9-12 12-15 15-18 18-21 |
| BULK WET DENSITY (GM/CC)   | 1.187 | 1.715                | 1.708 | 1.722               | 1.738 1.668 1.717      |
| VANE SHEAR STRENGTH (PSI)  | .183  | .319                 | .337  | .519                | .430 .340 .432         |
| REMOLDED STRENGTH (PSI)    | .064  | .134                 | .119  | .219                | .121 .168 .141         |
| SENSITIVITY                | 2.8   | 2.4                  | 2.8   | 2.4                 | 3.6 2.0 3.1            |
| ORIGINAL WATER CONTENT %   | 64.2  | 51.9                 | 58.2  | 53.5                | 56.5 56.3 56.3         |
| SPECIFIC GRAVITY OF SOLIDS | 2.671 | 2.677                | 2.688 | 2.673               | 2.665 2.669 2.663      |
| VOID RATIO                 | 2.696 | 1.370                | 1.491 | 1.382               | 1.401 1.500 1.424      |
| LIQUID LIMIT %             | 43.2  | -                    | -     | -                   | 52.5 -                 |
| PLASTIC LIMIT %            | 28.4  | -                    | -     | -                   | 29.9 -                 |
| PLASTICITY INDEX           | 14.8  | -                    | -     | -                   | 22.7 -                 |
| LIQUIDITY INDEX            | 242.  | -                    | -     | -                   | 118. -                 |

\*\*\*\*\* CORE NO PB - 2 \*\*\*\*\*

| LATITUDE 34 16.7 N         |       | LONGITUDE 119 24.2 W |       | WATER DEPTH 17.0 FM |                         |
|----------------------------|-------|----------------------|-------|---------------------|-------------------------|
| INTERVAL (IN)              |       | 21-24                | 24-27 | 27-30               | 30-33 33-36 36-39 39-42 |
| BULK WET DENSITY-(GM/CC)   | 1.743 | 1.795                | 1.731 | 1.827               | 1.845 1.818 1.847       |
| VANE SHEAR STRENGTH (PSI)  | .388  | .450                 | .422  | .401                | .541 .481 .545          |
| REMOLDED STRENGTH (PSI)    | .190  | .195                 | .208  | .177                | .260 .266 .324          |
| SENSITIVITY                | 2.0   | 2.3                  | 2.0   | 2.3                 | 2.1 1.8 1.7             |
| ORIGINAL WATER CONTENT %   | 51.6  | 50.0                 | 45.9  | 48.2                | 43.1 44.5 43.5          |
| SPECIFIC GRAVITY OF SOLIDS | 2.675 | 2.649                | 2.669 | 2.668               | 2.688 2.656 2.678       |
| VOID RATIO                 | 1.327 | 1.213                | 1.250 | 1.163               | 1.085 1.112 1.080       |
| LIQUID LIMIT %             | -     | 39.7                 | -     | -                   | - 39.3 -                |
| PLASTIC LIMIT %            | -     | 29.5                 | -     | -                   | - 27.7 -                |
| PLASTICITY INDEX           | -     | 10.2                 | -     | -                   | - 11.6 -                |
| LIQUIDITY INDEX            | -     | -                    | -     | -                   | - 145. -                |

BUREAU NO.: 88, p. 2      CORE NO. PB - 2 - \* \* \* \* \*

LATITUDE 34° 16.7' N      LONGITUDE 119° 24.2' W      WATER DEPTH 17.0' FM  
INTERVAL (IN)      42-45      45-48

|                            |       |       |
|----------------------------|-------|-------|
| BULK WET DENSITY (GM/CC)   | 1.850 | 1.848 |
| VAN V SHEAR STRENGTH (PSI) | 588   | 1.566 |
| REMOLDED STRENGTH (PSI)    | 340   | 534   |
| SENSITIVITY                | 1.7   | 2.9   |
| ORIGINAL WATER CONTENT %   | 42.7  | 41.4  |
| SPECIFIC GRAVITY OF SOLIDS | 2.686 | 2.696 |
| VOID RATIO                 | 1.072 | 1.063 |
| LIQUID LIMIT %             | -     | -     |
| PLASTIC LIMIT %            | -     | -     |
| PLASTICITY INDEX           | -     | -     |
| LIQUIDITY INDEX            | -     | -     |

LATITUDE 34° 16.93' N      LONGITUDE 119° 23.98' W      WATER DEPTH 19. FM  
 INTERVAL (IN)      0- 3    3- 6    6- 9    9-12    12-15

| COLOR (GSA NO.)            | 10YR4/210YR4/210YR4/210YR4/2         |
|----------------------------|--------------------------------------|
| BULK WET DENSITY (PCF)     | 101.                                 |
| VANF SHAFAR STRENGTH (PSF) | 93.    101.    103.                  |
| REMOLDED STRENGTH (PSF)    | 30.    16.    89.    80.    59.      |
| SENSITIVITY                | 11.    29.    23.    27.             |
| ORIGINAL WATER CONTENT %   | 2.6    3.0    3.4    2.2             |
| SPECIFIC GRAVITY OF SOLIDS | 64.3    90.1    61.3    62.5    63.0 |
| VOID RATIO                 | 2.64    2.64    2.64    2.64    2.65 |
| LIQUID LIMIT %             | 1.69    2.36    1.64    1.61    1.63 |
| PLASTIC LIMIT %            | 43.    47.    47.    47.             |
| PLASTICITY INDEX           | 27.    30.    30.    30.             |
| LIQUIDITY INDEX            | 16.    17.    17.    17.             |
| SAND %                     | 241.    188.    191.                 |
| SILT %                     | 2.2                                  |
| CLAY %                     | 66.8                                 |
| ACTIVITY                   | 31.0                                 |
| MEDIAN DIAMETER (NM)       | .0113                                |

|                            | LATITUDE<br>INTERVAL (IN) | LONGITUDE<br>15-18 18-21 21-24 24-27 27-30 30-33 33-36 | WATER DEPTH<br>119 23.98 W 104/2 106. 105. 105. 10Y4/2 10Y4/2 10Y4/2 |
|----------------------------|---------------------------|--|--|
| COLOR (GSA NO.)            |                           | SY5/2 10Y4/2 10Y4/2 10Y4/2 10Y4/2 10Y4/2 10Y4/2        |  |
| BULK WET DENSITY (PCF)     | 102.                      | 104. 104. 107. 106. 105. 108.                          |  |
| VANF SHEAR STRENGTH (PSF)  | 53.                       | 69. 93. 68. 71. 90. 95.                                |  |
| REMOLDED STRENGTH (PSF)    | 21.                       | 30. 37. 35. 29. 40. 41.                                |  |
| SENSITIVITY                | 2.5                       | 2.3 2.5 1.9 2.5 2.3 2.3                                |  |
| ORIGINAL WATER CONTENT %   | 63.4                      | 61.1 60.6 55.5 55.9 59.5 52.0                          |  |
| SPECIFIC GRAVITY OF SOLIDS | 2.65                      | 2.65 2.65 2.65 2.65 2.65 2.65                          |  |
| VOID RATIO                 | 1.64                      | 1.57 1.57 1.40 1.42 1.51 1.34                          |  |
| LIQUID LIMIT %             |                           | 44. 43. 47.  |  |
| PLASTIC LIMIT %            |                           | 29. 30. 29.  |  |
| PLASTICITY INDEX           |                           | 15. 13. 18.  |  |
| LIQUIDITY INDEX            |                           | 213. 195. 173.   |  |
| SAND %                     |                           | 1.8 1.9 1.9  |  |
| SILT %                     |                           | 66.0 60.9  |  |
| CLAY %                     |                           | 32.2 37.2  |  |
| ACTIVITY                   |                           | .7 .7 .7   |  |
| MEDIAN DIAMETER (MM)       |                           | .0110 .0091  |  |

[

BUREAU NO. 90

\*\*\*\*\* CORE NO PT - 6 \*\*\*\*\*

LATITUDE 34° 16.93' N LONGITUDE 119° 23.98' W WATER DEPTH 19. FM  
INTERVAL (IN) 0- 3

| COLOR (GSA NO.)            | BULK WET DENSITY (PCF) | 10YR4/2 |
|----------------------------|------------------------|---------|
| VANE SHEAR STRENGTH (PSF)  | 103.                   |         |
| REMOLDED STRENGTH (PSF)    | 45.                    |         |
| SENSITIVITY                | 12.                    |         |
| ORIGINAL WATER CONTENT %   | 3.9                    |         |
| SPECIFIC GRAVITY OF SOLIDS | 57.6                   |         |
| VOID RATIO                 | 2.62                   |         |
| LIQUID LIMIT %             | 1.51                   |         |
| PLASTIC LIMIT %            | 46.                    |         |
| PLASTICITY INDEX           | 27.                    |         |
| LIQUIDITY INDEX            | 19.                    |         |
|                            | 164.                   |         |

\*\*\*\*\* CORE NO PT - 6 \*\*\*\*\*

LATITUDE 34° 16.93' N LONGITUDE 119° 23.98' W WATER DEPTH 19. FM  
INTERVAL (IN) 3- 6 6- 9 9-12 12-15 15-18

| COLOR (GSA NO.)            | BULK WET DENSITY (PCF) | 10YR4/210YR4/210YR4/2 | 10YR4/2 |
|----------------------------|------------------------|-----------------------|---------|
| VANE SHEAR STRENGTH (PSF)  | 98.                    | 103.                  | 104.    |
| REMOLDED STRENGTH (PSF)    | 44.                    | 51.                   | 74.     |
| SENSITIVITY                | 15.                    | 28.                   | 27.     |
| ORIGINAL WATER CONTENT %   | 72.2                   | 60.2                  | 56.8    |
| SPECIFIC GRAVITY OF SOLIDS | 2.62                   | 2.62                  | 2.62    |
| VOID RATIO                 | 1.88                   | 1.55                  | 1.47    |
| LIQUID LIMIT %             | 44.                    | 44.                   | 47.     |
| PLASTIC LIMIT %            |                        | 31.                   | 28.     |
| PLASTICITY INDEX           |                        | 13.                   | 19.     |
| LIQUIDITY INDEX            |                        | 218.                  | 172.    |
| SAND %                     | 2.4                    |                       |         |
| SILT %                     | 70.6                   |                       |         |
| CLAY %                     | 27.0                   |                       |         |
| ACTIVITY                   | 7                      |                       |         |
| MEDIAN DIAMETER (MM)       | .0132                  |                       |         |

BUREC NO. 91, P. I      \*\*\*\*\* CORE NO PT - 2 \*\*\*\*

LATITUDE 34° 16.93' N      LONGITUDE 119° 23.98' W      WATER DEPTH 19.0' FM  
INTERVAL (IN)      6- 3    3- 6    6- 9    9-12

| COLOR (GSA NO.)            | 10YR4/210YR4/210YR4/2 | 5Y4/2 |
|----------------------------|-----------------------|-------|
| BULK WET DENSITY (PCF)     | 105.                  | 97.   |
| VANE SHEAR STRENGTH (PSF)  | 53.                   | 34.   |
| REMOLDED STRENGTH (PSF)    | 22.                   | 7.    |
| SENSITIVITY                | 2.4                   | 5.2   |
| ORIGINAL WATER CONTENT %   | 53.6                  | 81.0  |
| SPECIFIC GRAVITY OF SOLIDS | 2.63                  | 2.63  |
| VOID RATIO                 | 1.41                  | 2.07  |
| LIQUID LIMIT %             | 38.                   | 43.   |
| PLASTIC LIMIT %            | 26.                   | 26.   |
| PLASTICITY INDEX           | 12.                   | 15.   |
| LIQUIDITY INDEX            | 225.                  | 212.  |
| SAND %                     | 3.1                   |       |
| SILI %                     |                       | 67.8  |
| CLAY %                     |                       | 29.1  |
| ACTIVITY                   |                       | •7    |
| MEDIAN DIAMETER (NM)       |                       | .0136 |

BUREC NO. 91, p. 2 \* \* \* \* \* CORE NO PT - 2 \* \* \* \* \*

LATITUDE 34° 16.93' N      LONGITUDE 119° 23.98' W      WATER DEPTH 19.0' FM  
 INTERVAL (IN)      12-15    15-18    18-21    21-24    24-27    27-30

| COLOR (GSA NO.)            | 5Y5/2 | 5Y5/2 | 5Y5/2 | 5Y5/2 | 10Y4/2 | 10Y4/2 |
|----------------------------|-------|-------|-------|-------|--------|--------|
| BULK WET DENSITY (PCF)     | 104.  | 105.  | 106.  | 105.  | 103.   | 102.   |
| VANE SHEAR STRENGTH (PSF)  | 94.   | 77.   | 50.   | 89.   | 84.    | 61.    |
| REMOLDED STRENGTH (PSF)    | 29.   | 51.   | 38.   | 33.   | 34.    | 28.    |
| SENSITIVITY                | 3.2   | 1.5   | 1.3   | 2.7   | 2.5    | 2.1    |
| ORIGINAL WATER CONTENT-%   | 59.2  | 56.1  | 55.4  | 56.8  | 60.3   | 59.3   |
| SPECIFIC GRAVITY OF SOLIDS | 2.63  | 2.61  | 2.61  | 2.61  | 2.61   | 2.61   |
| VOID RATIO                 | 1.52  | 1.41  | 1.38  | 1.44  | 1.52   | 1.53   |
| LIQUID LIMIT %             | 45.   | 44.   | 44.   | 47.   |        |        |
| PLASTIC LIMIT %            | 28.   | 28.   | 28.   | 29.   |        |        |
| PLASTICITY INDEX           | 17.   | 17.   | 16.   | 18.   |        |        |
| LIQUIDITY INDEX            | 182.  | 171.  | 171.  | 175.  |        |        |
| SAND %                     |       |       | 1.7   |       |        |        |
| SILI %                     |       |       | 63.1  |       |        |        |
| CLAY %                     |       |       | 35.2  |       |        |        |
| ACTIVITY                   |       |       | .7    |       |        |        |
| MEDIAN DIAMETER (MM)       |       |       | .0108 |       |        |        |

BUREC NO. 92, P. 1 \*\*\*\*\* CORE NO PT - 1 \*\*\*\*\*

LATITUDE 34 16.93 N  
INTERVAL (IN) 0- 3 3- 6 6- 9 9-12 12-15 15-18 18-21

| COLOR (GSA NO.)            | 10YR4/210YR4/210YR4/2 | 5Y4/1 | 5Y4/1 | 5Y4/1 | 5Y4/1 | 5Y4/1 |
|----------------------------|-----------------------|-------|-------|-------|-------|-------|
| BULK WET DENSITY (PCF)     | 96.                   | 102.  | 106.  | 103.  | 105.  | 106.  |
| VANE SHEAR STRENGTH (PSF)  | 38.                   | 33.   | 59.   | 79.   | 119.  | 94.   |
| REMOLDED STRENGTH (PSF)    | 6.                    | 13.   | 26.   | 39.   | 50.   | 41.   |
| SENSITIVITY                | 6.8                   | 2.4   | 2.3   | 2.0   | 2.4   | 2.3   |
| ORIGINAL WATER CONTENT %   | 81.3                  | 65.8  | 56.6  | 60.6  | 58.0  | 58.0  |
| SPECIFIC GRAVITY OF SOLIDS | 2.62                  | 2.62  | 2.62  | 2.62  | 2.64  | 2.64  |
| VOID RATIO                 | 2.08                  | 1.66  | 1.42  | 1.54  | 1.47  | 1.46  |
| LIQUID LIMIT %             | 51.                   | 43.   | 46.   | 46.   | 44.   | 44.   |
| PLASTIC LIMIT %            | 32.                   | 28.   | 29.   | 29.   | 28.   | 28.   |
| PLASTICITY INDEX           | 19.                   | 15.   | 17.   | 17.   | 16.   | 16.   |
| LIQUIDITY INDEX            | 265.                  | 191.  | 166.  | 177.  |       |       |
| SAND %                     |                       | 2.6   |       |       | 1.0   |       |
| SILT %                     |                       |       | 66.6  |       | 64.7  |       |
| CLAY %                     |                       |       | 30.8  |       | 34.3  |       |
| ACTIVITY                   |                       |       |       | 7     | 7     | 7     |
| MEDIAN DIAMETER (NM)       |                       | .0122 | .0097 |       |       |       |

BUREC NO. 92, p. 2 \*\*\* CORE NO PT - 1 \*\*\*

| LATITUDE                   | 34 16.93 N | LONGITUDE | 119 23.98 W | WATER DEPTH | 19. FM |
|----------------------------|------------|-----------|-------------|-------------|--------|
| INTERVAL (IN)              | 21-24      | 24-27     | 27-30       | 30-33       |        |
| COLOR (GSA NO.)            | SY5/2      | SY5/2     | SY5/2       | SY5/2       |        |
| BULK WET DENSITY (PCF)     | 104.       | 104.      | 103.        | 106.        |        |
| VANE SHEAR STRENGTH (PSF)  | 57.        | 111.      | 70.         | 118.        |        |
| REMOLDED STRENGTH (PSF)    | 36.        | 53.       | 32.         | 39.         |        |
| SENSITIVITY                | 1.6        | 2.1       | 2.2         | 3.0         |        |
| ORIGINAL WATER CONTENT %   | 62.0       | 57.4      | 61.4        | 54.4        |        |
| SPECIFIC GRAVITY OF SOLIDS | 2.62       | 2.62      | 2.62        | 2.62        |        |
| VOID RATIO                 | 1.55       | 1.47      | 1.57        | 1.38        |        |
| LIQUID LIMIT %             | 45.        | 29.       | 42.         | 30.         |        |
| PLASTIC LIMIT %            | 16.        | 12.       |             |             |        |
| LIQUIDITY INDEX            | 181.       | 200.      |             |             |        |
| SAND %                     |            | 4.4       |             |             |        |
| SILT %                     |            | 64.8      |             |             |        |
| CLAY %                     |            | 30.8      |             |             |        |
| ACTIVITY                   |            | •6        |             |             |        |
| MEDIAN DIAMETER (MM)       |            | •0126     |             |             |        |

\*\*\* CORE NO PT - 1 \*\*\*

| LATITUDE                   | 34 16.93 N | LONGITUDE | 119 23.98 W | WATER DEPTH | 19. FM |
|----------------------------|------------|-----------|-------------|-------------|--------|
| INTERVAL (IN)              | 33-36      |           |             |             |        |
| COLOR (GSA NO.)            | SY5/2      |           |             |             |        |
| BULK WET DENSITY (PCF)     | 108.       |           |             |             |        |
| VANE SHEAR STRENGTH (PSF)  | 61.        |           |             |             |        |
| REMOLDED STRENGTH (PSF)    | 51.        |           |             |             |        |
| SENSITIVITY                | 1.2        |           |             |             |        |
| ORIGINAL WATER CONTENT %   | 51.8       |           |             |             |        |
| SPECIFIC GRAVITY OF SOLIDS | 2.62       |           |             |             |        |
| VOID RATIO                 | 1.30       |           |             |             |        |
| LIQUID LIMIT %             |            |           |             |             |        |
| PLASTIC LIMIT %            |            |           |             |             |        |
| PLASTICITY INDEX X         |            |           |             |             |        |
| LIQUIDITY INDEX            |            |           |             |             |        |

BUREC NO. 93

\*\*\*\*\* CORE NO. PPD-2

LATITUDE  $34^{\circ} 16.73'$

LONGITUDE  $119^{\circ} 24.05'$

REMARKS: CORE NOT TESTED, IN STORAGE IN MOISTURE ROOM AT ROOM TEMPERATURE, CORE OBTAINED  
25 MARCH 1970

WATER DEPTH 100 ft

BUREC NO. 94

\*\*\*\*\* CORE NO PPD - 1 \*\*\*\*\*

LATITUDE 34 16.73 N      LONGITUDE 119 24.25 W      WATER DEPTH 17 FM  
 INTERVAL (IN)      3-12-15      24-27      36-39      48-51      60-63

|                            |      |      |      |      |      |      |
|----------------------------|------|------|------|------|------|------|
| BULK WET DENSITY (PCF)     | 99   | 108  | 104  | 111  | 113  | 114  |
| VANE SHEAR STRENGTH (PSF)  | 12   | 40   | 89   | 70   | 91   | 65   |
| REMOLDED STRENGTH (PSF)    | 4    | 22   | 23   | 32   | 38   | 49   |
| SENSITIVITY                | 3.0  | 1.9  | 4.1  | 2.3  | 2.5  | 1.4  |
| ORIGINAL WATER CONTENT %   | 72.3 | 52.7 | 53.4 | 47.9 | 45.5 | 43.8 |
| SPECIFIC GRAVITY OF SOLIDS | 2.61 | 2.68 | 2.63 | 2.62 | 2.64 | 2.64 |
| VOID RATIO                 | 1.85 | 1.37 | 1.41 | 1.17 | 1.12 | 1.08 |
| LIQUID LIMIT %             | 45   | 42   | 42   | 37   | 36   | 39   |
| PLASTIC LIMIT %            | 30   | 32   | 32   | 29   | 33   | 29   |
| PLASTICITY INDEX           | 16   | 11   | 10   | 8    | 4    | 9    |
| Liquidity INDEX            | 2.73 | 2.04 | 2.17 | 2.48 | 3.56 | 1.56 |

\*\*\*\*\* CORE NO PPD - 1 \*\*\*\*\*

INTERVAL (IN)      63- 66

|                            |      |  |  |  |  |  |
|----------------------------|------|--|--|--|--|--|
| BULK WET DENSITY (PCF)     | 117  |  |  |  |  |  |
| VANE SHEAR STRENGTH (PSF)  | 355  |  |  |  |  |  |
| REMOLDED STRENGTH (PSF)    | 159  |  |  |  |  |  |
| SENSITIVITY                | 2.3  |  |  |  |  |  |
| ORIGINAL WATER CONTENT %   | 38.3 |  |  |  |  |  |
| SPECIFIC GRAVITY OF SOLIDS | 2.66 |  |  |  |  |  |
| VOID RATIO                 | .95  |  |  |  |  |  |
| LIQUID LIMIT %             | 39   |  |  |  |  |  |
| PLASTIC LIMIT %            | 34   |  |  |  |  |  |
| PLASTICITY INDEX           | 4    |  |  |  |  |  |
| Liquidity INDEX            | .96  |  |  |  |  |  |

BUREC NO. 95

\*\*\*\*\* CORE NO. PPD-3

LATITUDE  $34^{\circ} 16.73'$

LONGITUDE  $119^{\circ} 24.25'$

REMARKS : CORE NOT TESTED, IN STORAGE IN MOISTURE ROOM AT ROOM TEMPERATURE, CORE OBTAINED  
26 MARCH 1970

WATER DEPTH 103 ft

090050582

BUREC NO. 96, p. 1

\*\*\*\*\* CORE NO PP - 1 \*\*\*\*\*

LATITUDE 34 16.8 N      LONGITUDE 119 24.3 W  
 INTERVAL (IN)      0-3    3-6    6-9    9-12    12-15    18-21    21-24

|                            |      |      |       |         |      |        |      |
|----------------------------|------|------|-------|---------|------|--------|------|
| BULK WET DENSITY (PCF)     | 106. | 103. | 107.  | 105.    | 107. | 108.   | 108. |
| VANE SHEAR STRENGTH (PSF)  | 71.  | 57.  | 62.   | 56.     | 36.  | 67.    | 52.  |
| REMOLDED STRENGTH (PSF)    | 34.  | 24.  | 37.   | 21.     | 20.  | 21.    | 23.  |
| SENSITIVITY                | 2.1  | 2.4  | 1.7   | 2.7     | 1.8  | 3.2    | 2.3  |
| ORIGINAL WATER CONTENT %   | 52.1 | 57.0 | 57.8  | 58.7    | 55.4 | 55.6   | 54.9 |
| SPECIFIC GRAVITY OF SOLIDS | 2.64 | 2.65 | 2.65  | 2.73    | 2.64 | 2.64   | 2.68 |
| VOID RATIO                 | 1.37 | 1.52 | 1.45  | 1.58    | 1.39 | 1.38   | 1.40 |
| LIQUID LIMIT %             |      |      | 4.6   |         |      | 4.4    |      |
| PLASTIC LIMIT %            |      |      | 28.   |         |      | 28.    |      |
| PLASTICITY INDEX           |      |      | 18.   |         |      | 16.    |      |
| LIQUIDITY INDEX            |      |      | -174. |         |      | -174.  |      |
| CARBONATE CARBON CONTENT % |      |      |       | 0.99    |      | 0.07   |      |
| ORGANIC CARBON CONTENT %   |      |      |       | 0.97    |      | 0.94   |      |
| SAND %                     |      |      |       | 3.0     |      | 3.6    |      |
| SILT %                     |      |      |       | 65.3    |      | 66.0   |      |
| CLAY %                     |      |      |       | 31.7    |      | 30.4   |      |
| ACTIVITY                   |      |      |       | 0.9     |      | 0.8    |      |
| MEDIAN DIAMETER (MM)       |      |      |       | 0.0105  |      | 0.0112 |      |
| COLOR (GSA NO.)            |      |      |       | 5Y4/1   |      | 5Y4/1  |      |
|                            |      |      |       | 10YR4/2 |      | 5Y4/1  |      |

{

BUREAU NO. 96; P. 2

\* \* \* \* - CORE - NO - pp - - - - -

BUREC NO. 96, p. 2      \* \* \* \* \* CORE NO. pp. 1-17. FM  
LATITUDE 34° 16.8' N      LONGITUDE 119° 24.3' W      WATER DEPTH 17. FM  
INTERVAL (IN)      24-27 30-33 33-36 36-39 42-45 45-48 48-51

|                            | 5Y4/1 |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| HULK WET DENSITY (PCF)     | 107.  | 110.  | 107.  | 111.  | 114.  | 113.  | 114.  |       |       |       |       |       |
| VANF. SHEAR STRENGTH (PSF) | 47.   | 63.   | 74.   | 64.   | 83.   | 115.  | 124.  |       |       |       |       |       |
| REMOLDED STRENGTH (PSF)    | 10.   | 27.   | 29.   | 31.   | 34.   | 38.   | 49.   |       |       |       |       |       |
| SENSITIVITY                | 4.7   | 2.4   | 2.5   | 2.1   | 2.4   | 3.0   | 2.5   |       |       |       |       |       |
| ORIGINAL WAFFER CONTENT %  | 57.1  | 28.1  | 86.6  | 47.0  | 43.2  | 44.3  | 44.4  |       |       |       |       |       |
| SPECIFIC GRAVITY OF SOLIDS | 2.56  | 2.67  | 2.67  | 2.65  | 2.64  | 2.72  | 2.64  |       |       |       |       |       |
| VOID RATIO                 | 1.43  | .94   | 1.90  | 1.20  | 1.07  | 1.17  | 1.09  |       |       |       |       |       |
| LIQUID LIMIT %             |       | 46.   |       |       |       |       |       |       |       |       |       |       |
| PLASTIC LIMIT %            |       | 4.    |       |       |       |       |       |       |       |       |       |       |
| PLASTICITY INDEX           |       |       | 42.   |       |       |       |       |       |       |       |       |       |
| Liquidity Index            |       |       |       | 198.  |       |       |       |       |       |       |       |       |
| CARBONATE-CARBON CONTENT % |       |       |       |       | 0.12  |       |       |       |       |       |       |       |
| ORGANIC CARBON CONTENT %   |       |       |       |       |       | 0.15  |       |       |       |       |       |       |
| SAND %                     | 55    |       |       |       |       | 2.3   |       |       |       |       |       |       |
| SILT %                     | 35    |       |       |       |       |       | 59.7  |       |       |       |       |       |
| CLAY %                     | 10    |       |       |       |       |       | 38.0  |       |       |       |       |       |
| ACTIVITY                   |       |       |       |       |       |       |       | 1.7   |       |       |       |       |
| MEDIAN DIAMETER (MM)       |       |       |       |       |       |       |       |       | 1.0   |       |       |       |
| COLOR (GSA NO.)            |       |       |       |       |       |       |       |       |       | 0.088 |       | 0.174 |

BUREC NO. 97, P. 1 \*\*\*\*\* CORE NO. PPV - 1 \*\*\*\*\*

| LATITUDE                   | 34° 16.025' N | LONGITUDE | 119° 23.045' W | WATER DEPTH | 16' FM |
|----------------------------|---------------|-----------|----------------|-------------|--------|
| INTERVAL (IN)              | 9- 12         | 21- 24    | 33- 36         | 45- 48      | 51- 54 |
| BULK WEI DENSITY (PCF)     | 111           | 115       | 117            | 120         | 121    |
| VANE SHEAR STRENGTH (PSF)  | 38            | 26        | 90             | 203         | 257    |
| REMOLDED STRENGTH (PSF)    | 18            | 27        | 45             | 102         | 148    |
| SENSITIVITY                | 2.3           | 1.0       | 2.0            | 2.0         |        |
| ORIGINAL WATER CONTENT %   | 49.5          | 40.8      | 37.5           | 34.5        | 32.5   |
| SPECIFIC GRAVITY OF SOLIDS | 2.64          | 2.62      |                |             | 32.7   |
| VOID RATIO                 | 1.01          | .83       |                |             |        |
| LIQUID LIMIT %             | 33            | 33        | 33             |             |        |
| PLASTIC LIMIT %            |               |           |                |             |        |
| PLASTICITY INDEX           |               |           |                |             |        |
| LIQUIDITY INDEX            |               |           |                |             |        |
| *PERCENT                   |               |           |                |             |        |

\*\*\*\*\* CORE NO. PPV - 1 \*\*\*\*\*

| INTERVAL (IN)              | 63- 66 | 69- 72 | 75- 78 | 81- 84 | 87- 90 | 93- 96 |
|----------------------------|--------|--------|--------|--------|--------|--------|
| BULK WEI DENSITY (PCF)     | 122    | 121    | 122    | 122    | 122    | 120    |
| VANE SHEAR STRENGTH (PSF)  | 192    | 279    | 302    | 411    | 335    | 297    |
| REMOLDED STRENGTH (PSF)    |        |        |        |        |        |        |
| SENSITIVITY                |        |        |        |        |        |        |
| ORIGINAL WATER CONTENT %   | 30.7   | 31.4   | 31.1   | 31.1   | 26.9   | 34.3   |
| SPECIFIC GRAVITY OF SOLIDS | 2.63   | 2.79   |        |        |        | 2.62   |
| VOID RATIO                 | .79    |        |        |        |        | .84    |
| LIQUID LIMIT %             | 34     |        |        |        |        | 35     |
| PLASTIC LIMIT %            | 27     |        |        |        |        | 30     |
| PLASTICITY INDEX           | 7      |        |        |        |        | 5      |
| LIQUIDITY INDEX            |        |        |        |        |        | .89    |
| *PERCENT                   |        |        |        |        |        |        |

BUREC NO. 97, p. 2      \* \* \* \* \* CORE NO — PPV — 1 \* \* \* \* \*

INTERVAL (IN) —      99-102-102-105

|                            |      |      |
|----------------------------|------|------|
| BULK WEI-DENSITY (PCF)     | 125  | 121  |
| VANE SHEAR STRENGTH (PSF)  | 77   | 579  |
| REMOLEDFD STRENGTH (PSF)   |      |      |
| SENSITIVITY                |      |      |
| ORIGINAL WATER CONTENT %   | 32.3 | 31.0 |
| SPECIFIC GRAVITY OF SOLIDS | 2.63 |      |
| VOID RATIO                 | .77  |      |
| LIMIT %                    | 35   |      |
| PLASTIC LIMIT %            | 29   |      |
| PLASTICITY INDEX           | 5    |      |
| LIQUIDITY INDEX            |      |      |
| *PERCENT                   | .41  |      |

BUREC NO. 98

\*\*\*\*\* CORE NO. 55 - 2 \*\*\*\*\*

LATITUDE 3359.6 N      LONGITUDE 11919.0 W      DEPTH 686. M  
 INTERVAL (IN)      .63      12.15      24.27      36.39      48.51

|                             |        |        |        |        |        |
|-----------------------------|--------|--------|--------|--------|--------|
| COLOR (GSA NO.)             | 10Y4/2 | 10Y4/2 | 10Y4/2 | 10Y4/2 | 10Y4/2 |
| BULK WET DENSITY (GM/CC)    | 1.312  | 1.477  | 1.534  | 1.607  | 1.609  |
| VANF SHEAR STRENGTH (PSI)   | .037   | .196   | .346   | .525   | .653   |
| VANE SHEAR STRENGTH (GM/CC) | 2.6    | 13.8   | 24.3   | 36.9   | 45.9   |
| REMOLDED STRENGTH (PSI)     | .026   | .094   | .129   | .182   | .260   |
| REMOLDED STRENGTH (GM/CC)   | 1.8    | 6.6    | 9.1    | 12.3   | 18.2   |
| SENSITIVITY                 | 1.4    | 2.1    | 2.7    | 2.9    | 2.5    |
| ORIGINAL WATER CONTENT (%)  | 132.0  | 102.8  | 76.2   | 67.7   | 72.1   |
| SPECIFIC GRAVITY OF SOLIDS  | 2.796  | 2.848  | 2.853  | 2.926  | 2.922  |
| VOID RATIO                  | 3.945  | 2.912  | 2.278  | 2.055  | 2.126  |
| LIQUID LIMIT (%)            | 71.5   | 74.3   | 63.1   | 52.4   | 62.4   |
| PLASTIC LIMIT (%)           | 37.4   | 37.2   | 33.3   | 31.0   | 34.2   |
| PLASTICITY INDEX            | 34.1   | 37.1   | 29.8   | 21.4   | 28.2   |
| LIQUIDITY INDEX             | 27.7   | 177.   | 144.   | 172.   | 134.   |
| ACTIVITY                    | 1.1    | 1.3    | 1.1    | 0.9    | 1.0    |
| PERCENT SAND                | 3.7    | 5.7    | 7.6    | 8.9    | 2.7    |
| PERCENT SILT                | 50.0   | 54.3   | 52.1   | 55.9   | 53.1   |
| PERCENT CLAY                | 46.3   | 40.0   | 40.3   | 35.2   | 46.2   |
| MEDIAN DIAMETER (MM)        | .0058  | .0076  | .0076  | .0100  | .0063  |

LATITUDE 34° 1.90' N      LONGITUDE 119° 16.30' W      WATER DEPTH 1230. FT  
INTERVAL (IN)      0 - 0

|                            |        |
|----------------------------|--------|
| COLOR (GSA NO.)            | 5GY4/1 |
| BULK UNIT DENSITY (PCF)    | 115.   |
| VANE SHEAR STRENGTH (PSF)  | 240.   |
| REMOLDED STRENGTH (PSF)    | 200.   |
| SENSITIVITY                | 1.2    |
| ORIGINAL WATER CONTENT-%   | 39.2   |
| SPECIFIC GRAVITY OF SOLIDS | 2.64   |
| VOID RATIO                 | .99    |
| LIQUID LIMIT %             | 42.    |
| PLASTIC LIMIT %            | 24.    |
| PLASTICITY INDEX           | 18.    |
| LIQUIDITY INDEX            | 84.    |
| SAND %                     | 10.5   |
| SILT %                     | 55.9   |
| CLAY %                     | 33.6   |
| ACTIVITY                   | .8     |
| MEDIAN DIAMETER (MM)       | .0121  |
| REMARKS                    | * * *  |

THE SAMPLE WAS TAKEN FROM A LARGE BODY OF SEDIMENT WHICH ADHERED TO THE ANCHOR UPON RETRIEVAL. DEPTH LOCATION IN THE SEDIMENT COLUMN OF THE SAMPLE IS, THEREFORE, UNKNOWN. THE SAMPLE APPEARS TO BE HOMOGENEOUS DARK GREENISH GRAY CLAYEY SILT WITH A FEW SCATTERED SMALL SHELL FRAGMENTS IN THE SEDIMENT MATRIX. THERE ARE NO APPARENT LAYERING OR STRUCTURES IN THE SAMPLE OBSERVED (APPROX. 0.75 GALLONS). A STRONG HYDROGEN SULFIDE (H<sub>2</sub>S) ODOR WAS PRESENT. SHEAR STRENGTH WAS MEASURED WITH A HAND HELD DEVICE (TORVANE).

BUREC NO. 100

\*\*\*\*\* CORE NO. STS-2

LATITUDE  $34^{\circ}$  05.90'

LONGITUDE  $119^{\circ}$  13.93'

WATER DEPTH 20

FM

|                                     |       |
|-------------------------------------|-------|
| COLOR (GSA NO.)                     | 5Y5/2 |
| VANE SHEAR STRENGTH, REMOLDED (PSI) | 0.81  |
| ORIGINAL WATER CONTENT (%)          | 35.   |
| SPECIFIC GRAVITY OF SOLIDS          | 2.69  |
| LIQUID LIMIT (%)                    | NP    |
| PLASTIC LIMIT (%)                   | NP    |
| SAND (%)                            | 73.0  |
| SILT (%)                            | 21.7  |
| CLAY (%)                            | 5.3   |
| MEDIAN DIAMETER (MM)                | 0.066 |

REMARKS: CORE SAMPLING WAS ATTEMPTED BUT SEDIMENT POSSESSED PROPERTIES WHICH INHIBITED PENETRATION AND RETAINING OF THE SAMPLE. CONSEQUENTLY, SAMPLE WAS RETRIEVED WITH A SCOOP SAMPLER (DESCRIBED BY JONES, NCEL TN-457, 1963). THEREFORE, THE TEST RESULTS REPRESENT ONLY THE TOP FEW INCHES OF THE SEDIMENT COLUMN. SAMPLES CLASSIFIED AS COARSE GRAINED- FAIRLY DENSE- UNIFORM SAND AND SILTY SAND.

BUREC NO. -101

\*\*\*\*\* CORE NO SCN1 = 3 \*\*\*\*\*

LATITUDE 34-03.50-N      LONGITUDE 119-13.80-W      WATER DEPTH 141. FM  
INTERVAL (IN)      0- 3      12-15

| COLOR (GSA NO.)             | 5Y3/2  | 5Y3/2  |
|-----------------------------|--------|--------|
| BULK WET DENSITY - (PCF)    | 103.   | 106.   |
| VANE SHEAR STRENGTH - (PSF) | 10.    | 14.    |
| REMOLDED STRENGTH - (PSF)   | *      | 11.    |
| SENSITIVITY                 | *      | 1.3    |
| ORIGINAL WATER CONTENT - %  | 58.0   | 54.8   |
| SPECIFIC GRAVITY OF SOLIDS  | 2.55   | 2.53   |
| VOID RATIO                  | 1.43   | 1.30   |
| LIQUID LIMIT %              | 35.    | 39.    |
| PLASTIC LIMIT %             | 29.    | 29.    |
| PLASTICITY INDEX            | 6.     | 10.    |
| LIQUIDITY INDEX             | 452.   | 262.   |
| CARBONATE CARBON CONTENT %  | • 42   | • 28   |
| ORGANIC CARBON CONTENT %    | • 66   | • 78   |
| SAND %                      | 42.5   | 36.0   |
| SILT %                      | 41.6   | 45.2   |
| CLAY %                      | 15.9   | 18.8   |
| ACTIVITY                    | 0.5    | 0.7    |
| MEDIAN DIAMETER (MM)        | • 0460 | • 0400 |

REMARKS \*\*\*

THIS SAMPLE WAS OBTAINED FROM THE AREA 5 MILES SOUTH OF PORT HUENEME WITH A  
GRAB SAMPLER. THE SAMPLE WAS THEN TRANSFERRED INTO A PLASTIC LINER FOR STORAGE.

(6)

BUREC NO. 102 \*\*\*\* CORE NO. 55 - 1 \*\*\*\*

LATITUDE 34°02'.8 N LONGITUDE 119°12.8 W DEPTH 360. M  
INTERVAL (IN) .03 12.15 24.27 36.39 48.51

|                             |        |        |        |        |        |
|-----------------------------|--------|--------|--------|--------|--------|
| COLOR (GSA NO.)             | 10Y4/2 | 10Y4/2 | 10Y4/2 | 10Y4/2 | 10Y4/2 |
| BULK WET DENSITY (GM/CC)    | 1.553  | 1.698  | 1.642  | 1.684  | 1.628  |
| VANE SHEAR STRENGTH (PSI)   | .201   | .330   | .373   | .612   | .727   |
| VANE SHEAR STRENGTH (GM/CC) | 14.2   | 23.2   | 26.2   | 43.0   | 51.1   |
| REMOLDED STRENGTH (PSI)     | .060   | .153   | .137   | .266   | .348   |
| REMOLDED STRENGTH (GM/CC)   | 4.2    | 10.8   | 9.6    | 18.7   | 24.5   |
| SENSITIVITY                 | 3.4    | 2.2    | 2.7    | 2.3    | 2.1    |
| ORIGINAL WATER CONTENT (%)  | 76.1   | 53.9   | 67.6   | 55.8   | 70.3   |
| SPECIFIC GRAVITY OF SOLIDS  | 2.821  | 2.791  | 2.917  | 2.826  | 2.943  |
| VOID RATIO                  | 2.199  | 1.531  | 1.977  | 1.615  | 2.079  |
| LIQUID LIMIT (%)            | 49.1   | 40.4   | 51.5   | 46.2   | 57.7   |
| PLASTIC LIMIT (%)           | 28.0   | 27.0   | 28.0   | 28.7   | 33.9   |
| PLASTICITY INDEX            | 21.0   | 13.5   | 23.5   | 17.4   | 23.7   |
| LIQUIDITY INDEX             | 229.   | 201.   | 169.   | 155.   | 153.   |
| ACTIVITY                    | 1.1    | 0.9    | 1.0    | 0.8    | 0.8    |
| PERCENT SAND                | 24.3   | 23.5   | 6.8    | 9.8    | 4.0    |
| PERCENT SILT                | 49.9   | 56.3   | 57.2   | 59.9   | 48.7   |
| PERCENT CLAY                | 25.8   | 20.2   | 36.0   | 30.3   | 47.3   |
| MEDIAN DIAMETER (MM)        | .0210  | .0240  | .0093  | .0140  | .0056  |

BUREC NO. 103

\*\*\*\*\* CORE NO. H10 - 1 \*\*\*\*\*

103

LATITUDE 34°3.0' N LONGITUDE 119°12.5' W DEPTH 335. M  
INTERVAL (IN) .03 12.15 24.27 36.39

|                             |        |        |        |        |
|-----------------------------|--------|--------|--------|--------|
| COLOR (GSA NO.)             | 10Y4/2 | 10Y4/2 | 10Y4/2 | 10Y4/2 |
| BULK WET DENSITY (GM/CC)    | 1.696  | 1.694  | 1.766  | 1.694  |
| VANE SHEAR STRENGTH (PSI)   | .328   | .661   | .810   | .853   |
| VANE SHEAR STRENGTH (GM/CC) | 23.1   | 46.5   | 56.9   | 60.0   |
| REMOLDED STRENGTH (PSI)     | .055   | .144   | .388   | .438   |
| REMOLDED STRENGTH (GM/CC)   | 3.8    | 10.1   | 27.2   | 30.8   |
| SENSITIVITY                 | 6.0    | 4.6    | 2.1    | 1.9    |
| ORIGINAL WATER CONTENT (%)  | 58.5   | 55.1   | 49.6   | 46.6   |
| SPECIFIC GRAVITY OF SOLIDS  | 2.753  | 2.827  | 2.864  | 2.933  |
| VOID RATIO                  | 1.573  | 1.589  | 1.426  | 1.539  |
| LIQUID LIMIT (%)            | 38.2   | 41.2   | 42.1   | 48.2   |
| PLASTIC LIMIT (%)           | 26.0   | 26.9   | 26.9   | 28.7   |
| PLASTICITY INDEX            | 12.2   | 14.3   | 15.2   | 19.5   |
| LIQUIDITY INDEX             | 26.7   | 19.7   | 15.0   | 9.2    |
| ACTIVITY                    | 0.9    | 0.8    | 0.8    | 0.7    |
| PERCENT SAND                | 36.4   | 12.7   | 10.3   | 6.0    |
| PERCENT SILT                | 44.9   | 59.0   | 60.8   | 55.6   |
| PERCENT CLAY                | 18.7   | 28.3   | 28.9   | 38.4   |
| MEDIAN DIAMETER (MM)        | .0390  | .0150  | .0140  | .0086  |

BUREC NO. 104

\* \* \* \* \* CORE NO AT - 16 \* \* \* \* \*

INTERVALS 12-15 36-39 60-63 72-75 84-87 96-99 08-11

| COLOR (GSA NO.)      | SY3/2  | SY3/2  | SY3/2  | SY3/2  | SY3/2  | SY3/2  |
|----------------------|--------|--------|--------|--------|--------|--------|
| SAND %               | 88.3   | 14.0   | 34.8   | 34.8   | 37.0   | 30.0   |
| SILT %               | 7.4    | 75.5   | 57.4   | 57.9   | 58.4   | 63.9   |
| CLAY %               | 4.3    | 10.5   | 7.8    | 7.3    | 6.8    | 7.7    |
| ACTIVITY             |        |        |        |        |        |        |
| MEDIAN DIAMETER (MM) | 0.2330 | 0.2980 | 0.4090 | 0.4040 | 0.4180 | 0.4200 |
| INTERVALS            | 18-21  |        |        |        |        |        |

| COLOR (GSA NO.)      | SY3/2  |
|----------------------|--------|
| SAND %               | 35.5   |
| SILT %               | 57.5   |
| CLAY %               | 7.0    |
| ACTIVITY             |        |
| MEDIAN DIAMETER (MM) | 0.4100 |

REMARKS: THIS SAMPLE WAS TAKEN APPROXIMATELY ONE-HALF MILE OFFSHORE FROM NCEL.

BUREC NO. 105

\*\*\*\*\*

LATITUDE 34° 08.2' N LONGITUDE 119° 11.8' W DEPTH 91. M  
INTERVAL (IN) .03 12.15 24.27 36.39

| COLOR (GSA NO.)             | 10Y4/2 | 10Y4/2 | 10Y4/2 | 10Y4/2 |
|-----------------------------|--------|--------|--------|--------|
| BULK WET DENSITY (GM/CC)    | 1.0724 | 1.777  | 1.908  | 1.800  |
| VANE SHEAR STRENGTH (PSI)   | •470   | •507   | •874   | •993   |
| VANE SHEAR STRENGTH (GM/CC) | 33.0   | 35.6   | 61.5   | 69.8   |
| REMOLDED STRENGTH (PSI)     | •117   | •189   | •41.0  | •428   |
| REMOLDED STRENGTH (GM/CC)   | 8.2    | 13.3   | 28.8   | 30.1   |
| SENSITIVITY                 | 4.0    | 2.7    | 2.1    | 2.3    |
| ORIGINAL WATER CONTENT (%)  | 49.0   | 50.0   | 38.8   | 47.3   |
| SPECIFIC GRAVITY OF SOLIDS  | 2.0763 | 2.0786 | 2.740  | 2.867  |
| VOID RATIO                  | 1.387  | 1.352  | .992   | 1.346  |
| POROSITY (%)                | 58.1   | 57.5   | 49.8   | 57.4   |
| LIQUID LIMIT (%)            | 33.9   | 37.6   | 31.7   | 39.8   |
| PLASTIC LIMIT (%)           | 25.4   | 25.7   | 26.2   |        |
| PLASTICITY INDEX            | 8.5    | 11.9   | 13.6   |        |
| LIQUIDITY INDEX             | 277.   | 204.   | 155.   |        |
| ACTIVITY                    | 0.6    | 0.6    | 0.7    |        |
| PERCENT SAND                | 26.0   | 13.9   | 30.9   | 14.0   |
| PERCENT SILT                | 56.2   | 59.5   | 54.8   | 57.7   |
| PERCENT CLAY                | 17.8   | 26.6   | 14.3   | 28.3   |
| MEDIAN DIAMETER (MM)        | •0280  | •0170  | •0320  | •0150  |

BUREC NO. 106

\*\*\*\*\* CORE NO. STS-5

LATITUDE 34° 08.21' LONGITUDE 119° 11.62' WATER DEPTH 7' FM

|                                     |       |
|-------------------------------------|-------|
| COLOR (GSA NO.)                     | 5Y5/2 |
| VANE SHEAR STRENGTH, REMOLDED (PSI) | 0.90  |
| ORIGINAL WATER CONTENT (%)          | 28.   |
| SPECIFIC GRAVITY OF SOLIDS          | 2.65  |
| Liquid LIMIT (%)                    | NP    |
| PLASTIC LIMIT (%)                   | NP    |
| SAND (%)                            | 92.3  |
| SILT (%)                            | 4.9   |
| CLAY (%)                            | 2.8   |
| MEDIAN DIAMETER (MM)                | 0.125 |

REMARKS: CORE SAMPLING WAS ATTEMPTED BUT SEDIMENT POSSESSED PROPERTIES WHICH INHIBITED PENETRATION AND RETAINING OF THE SAMPLE. CONSEQUENTLY, SAMPLE WAS RETRIEVED WITH A SCOOP SAMPLER (DESCRIBED BY JONES, NCEL TN-457, 1963). THEREFORE, THE TEST RESULTS REPRESENT ONLY THE TOP FEW INCHES OF THE SEDIMENT COLUMN. SAMPLES CLASSIFIED AS COARSE GRAINED- FAIRLY DENSE- UNIFORM SAND AND SILTY SAND.

| BUREC NO. | 107        | *****     | CORE NO.    | STS-1       |    |
|-----------|------------|-----------|-------------|-------------|----|
| LATITUDE  | 34° 06.09' | LONGITUDE | 119° 11.37' | WATER DEPTH | 16 |
|           |            |           |             | FM          |    |

|                                     |       |
|-------------------------------------|-------|
| COLOR (GSA NO.)                     | 5Y5/2 |
| VANE SHEAR STRENGTH, REMOLDED (PSI) | 1.63  |
| ORIGINAL WATER CONTENT (%)          | 30.   |
| SPECIFIC GRAVITY OF SOLIDS          | 2.67  |
| LIQUID LIMIT (%)                    | NP    |
| PLASTIC LIMIT (%)                   | NP    |
| SAND (%)                            | 84.0  |
| SILT (%)                            | 11.7  |
| CLAY (%)                            | 4.3   |
| MEDIAN DIAMETER (MM)                | 0.080 |

REMARKS: CORE SAMPLING WAS ATTEMPTED BUT SEDIMENT POSSESSED PROPERTIES WHICH INHIBITED PENETRATION AND RETAINING OF THE SAMPLE. CONSEQUENTLY, SAMPLE WAS RETRIEVED WITH A SCOOP SAMPLER (DESCRIBED BY JONES, NCEL TN-457, 1963). THEREFORE, THE TEST RESULTS REPRESENT ONLY THE TOP FEW INCHES OF THE SEDIMENT COLUMN. SAMPLES CLASSIFIED AS COARSE GRAINED- FAIRLY DENSE- UNIFORM SAND AND SILTY SAND.

| BUREC NO. | 108        | *****     | CORE NO.    | STS-3       |    |
|-----------|------------|-----------|-------------|-------------|----|
| LATITUDE  | 34° 03.88' | LONGITUDE | 119° 11.15' | WATER DEPTH | 28 |
|           |            |           |             |             | FM |

|                                      |       |
|--------------------------------------|-------|
| COLOR (GSA NO.)                      | 5Y5/2 |
| VANE SHEAR STRENGTH, REMOULDED (PSI) | 0.50  |
| ORIGINAL WATER CONTENT (%)           | 34.   |
| SPECIFIC GRAVITY OF SOLIDS           | 2.68  |
| LIQUID LIMIT (%)                     | NP    |
| PLASTIC LIMIT (%)                    | NP    |
| SAND (%)                             | 80.0  |
| SILT (%)                             | 15.0  |
| CLAY (%)                             | 5.0   |
| MEDIAN DIAMETER (MM)                 | 0.078 |

REMARKS: CORE SAMPLING WAS ATTEMPTED BUT SEDIMENT POSSESSED PROPERTIES WHICH INHIBITED PENETRATION AND RETAINING OF THE SAMPLE. CONSEQUENTLY, SAMPLE WAS RETRIEVED WITH A SCOOP SAMPLER (DESCRIBED BY JONES, NCEL TN-457, 1963). THEREFORE, THE TEST RESULTS REPRESENT ONLY THE TOP FEW INCHES OF THE SEDIMENT COLUMN. SAMPLES CLASSIFIED AS COARSE GRAINED- FAIRLY DENSE- UNIFORM SAND AND SILTY SAND.

BUREC NO. 109

\*\*\*\*\* CORE NO. STS-4

LATITUDE  $34^{\circ} 06.29'$

LONGITUDE  $119^{\circ} 09.69'$

FM

|                                     |       |
|-------------------------------------|-------|
| COLOR (GSA NO.)                     | SY5/2 |
| VANE SHEAR STRENGTH, REMOLDED (PSI) | 3.85  |
| ORIGINAL WATER CONTENT (%)          | 28.   |
| SPECIFIC GRAVITY OF SOLIDS          | 2.68  |
| LIQUID LIMIT (%)                    | NP    |
| PLASTIC LIMIT (%)                   | NP    |
| SAND (%)                            | 92.5  |
| SILT (%)                            | 4.8   |
| CLAY (%)                            | 2.7   |
| MEDIAN DIAMETER (MM)                | 0.084 |

REMARKS: CORE SAMPLING WAS ATTEMPTED BUT SEDIMENT POSSESSED PROPERTIES WHICH INHIBITED PENETRATION AND RETAINING OF THE SAMPLE. CONSEQUENTLY, SAMPLE WAS RETRIEVED WITH A SCOOP SAMPLER (DESCRIBED BY JONES, NCEL TN-457, 1963). THEREFORE, THE TEST RESULTS REPRESENT ONLY THE TOP FEW INCHES OF THE SEDIMENT COLUMN. SAMPLES CLASSIFIED AS COARSE GRAINED- FAIRLY DENSE- UNIFORM SAND AND SILTY SAND.

BUREC NO. 110

120

\*\*\*\*\* CORE NO. SCN1 - 19 \*\*\*\*\*

LATITUDE 33 59.78 N LONGITUDE 118 56.55 W  
INTERVAL (IN) 0- 3 3- 6 6- 9 9-12

| COLOR (GSA NO.)            | 5Y3/2 | 5Y3/2 | 5Y3/2 | 5Y3/2 |
|----------------------------|-------|-------|-------|-------|
| BULK WET DENSITY (PCF)     | 117.  | 116.  | 116.  | 116.  |
| VANE SHEAR STRENGTH (PSF)  | 79.   | 133.  | 216.  | 177.  |
| REMOLDED STRENGTH (PSF)    | 43.   | 61.   | 99.   | 157.  |
| SENSITIVITY                | 1.9   | 2.2   | 2.2   | 1.1   |
| ORIGINAL WATER CONTENT %   | 41.1  | 37.7  | 40.4  | 38.9  |
| SPECIFIC GRAVITY OF SOLIDS | 2.60  | 2.60  | 2.60  | 2.60  |
| VOID RATIO                 | .96   | .89   | .96   | .94   |
| LIQUID LIMIT %             | 31.   | 32.   | 37.   | 39.   |
| PLASTIC LIMIT %            | .     | .     | 25.   | 26.   |
| PLASTICITY INDEX           | .     | .     | 12.   | 13.   |
| LIQUIDITY INDEX            | .     | .     | 126.  | 102.  |
| CARBONATE CARBON CONTENT % | .20   | .47   | .50   | .52   |
| ORGANIC CARBON CONTENT %   | .61   | .52   | .65   | .68   |
| SAND %                     | 55.0  | 42.0  | 27.4  | 22.0  |
| SILT %                     | 31.2  | 40.0  | 50.2  | 53.4  |
| CLAY %                     | 13.8  | 18.0  | 22.4  | 24.6  |
| ACTIVITY                   | 0.0   | 0.0   | 7     | 7     |
| MEDIAN DIAMETER (MM)       | .0155 | .0148 | .0300 | .0260 |

1

BUREC NO. 111

\*\*\*\*\* CORE NO SCNI - 4 \*\*\*\*\*

LATITUDE 34 00.00 N      LONGITUDE 118 56.80 W      WATER DEPTH 98. FM  
INTERVAL (IN) 0- 3

|                            |        |
|----------------------------|--------|
| COLOR (GSA NO.)            | 10Y4/2 |
| BULK WET DENSITY (PCF)     | 115.   |
| VANE SHEAR STRENGTH (PSF)  | 52.    |
| REMOLDED STRENGTH (PSF)    | 24.    |
| SENSITIVITY                | 2.2    |
| ORIGINAL WATER CONTENT %   | 39.3   |
| SPECIFIC GRAVITY OF SOLIDS | 2.55   |
| VOID RATIO                 | .92    |
| LIQUID LIMIT %             | •      |
| PLASTIC LIMIT %            | •      |
| PLASTICITY INDEX           | •      |
| LIQUIDITY INDEX            | •      |
| CARBONATE CARBON CONTENT % | .12    |
| ORGANIC CARBON CONTENT %   | .56    |
| SAND %                     | 57.2   |
| SILT %                     | 32.7   |
| CLAY %                     | 10.1   |
| ACTIVITY                   | .0     |
| MEDIAN DIAMETER (MM)       | .0580  |

REMARKS \*\*\*

THIS CORE WAS TAKEN FROM THE AREA 9 MILES WEST OF POINT DUME.

27

BUREC NO. 112 \*\*\*\* CORE NO SCNT - S \*\*\*\*\*

LATITUDE 34° 0.00' N LONGITUDE 118° 35' W WATER DEPTH 93. FM  
INTERVAL (IN) 0- 3 12-15

|                            |               |
|----------------------------|---------------|
| COLOR (GSA NO.)            | 10Y4/2 10Y4/2 |
| BULK WET DENSITY (PCF)     | 113. 114.     |
| VANE SHEAR STRENGTH (PSF)  | 55. 122.      |
| REMOLDED STRENGTH (PSF)    | 17. 44.       |
| SENSITIVITY                | 3.3 2.8       |
| ORIGINAL WATER CONTENT %   | 72.7 43.7     |
| SPECIFIC GRAVITY OF SOLIDS | 2.52 2.51     |
| VOID RATIO                 | 1.41 .97      |
| LIQUID LIMIT %             | .38.          |
| PLASTIC LIMIT %            | .28.          |
| PLASTICITY INDEX           | .10.          |
| LIQUIDITY INDEX            | .152.         |
| CARBONATE CARBON CONTENT % | .03 .37       |
| ORGANIC CARBON CONTENT %   | .82 .72       |
| SAND %                     | 51.4 22.0     |
| SIL %                      | 37.0 54.4     |
| CLAY %                     | 11.6 23.6     |
| ACTIVITY                   | .0 .6         |
| MEDIAN DIAMETER (MM)       | .0520 .0280   |

REMARKS \*\*\*  
THIS CORE WAS ALSO TAKEN FROM THE AREA 9 MILES WEST OF POINT DUME.